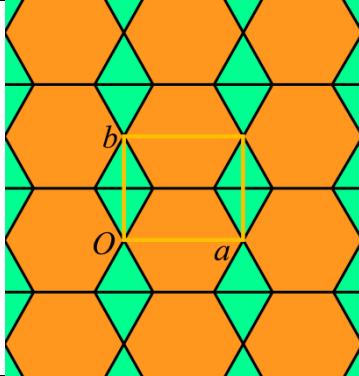
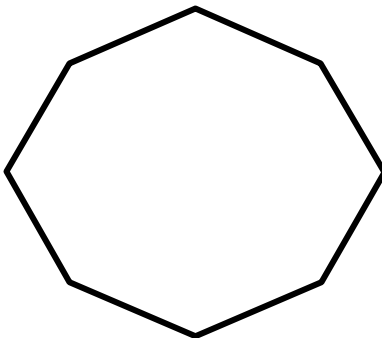


Supplementary materials

bew	Plane group	a	b	$\gamma, ^\circ$	
	$p2mm$	2.0000	1.7321	90	
	Vertex	CN	x	y	
	u_1	4	0	0	
	u_2	4	0.25	0.5	
Growth polygon	Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
	0	1/2	0	0	2
	1	1/3	1/3	40.893	3
	2	0	1/2	90	2
	3	-1/3	1/3	139.107	3
	4	-1/2	0	180	2
	5	-1/3	-1/3	220.893	3
	6	0	-1/2	270	2
	7	1/3	-1/3	319.107	3

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k					$d(x, x_i)$
	1	2	3	4	5	
0	0	0	1	1	1	2
1	1	0	0	1	1	0
2	1	0	0	1	1	0
3	0	0	1	1	1	2
4	0	0	1	1	1	2
5	1	0	0	1	1	0
6	1	0	0	1	1	0
7	0	0	1	1	1	2

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$		$\delta_{i,k}^{(2)}$	
	k		k	
	0	1	0	1
0	1	2	1	1
1	1	0	1	0

2	1	0	0	0
3	1	0	1	0
4	1	2	1	1
5	1	0	1	0
6	1	0	0	0
7	1	0	1	0

For $n \geq 3$

$$e_n(u_1) = 4r_2(n-1; 2, 3) + 4r_2(n-4; 2, 3) + 8r_2(n-5; 2, 3) + 4r_2(n-6; 2, 3) + 4r_2(n-7; 2, 3) + 6r_1(n; 2) + 6r_1(n-1; 2) + 4r_1(n; 3) + 4r_1(n-2; 3).$$

$$\text{For } n \geq 3 \quad e_n(u_1) = \begin{cases} 4n-2, n \equiv 0, 2, 4(\text{mod } 6) \\ 4n+2, n \equiv 1, 3, 5(\text{mod } 6) \end{cases}.$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k					$d(x, x_i)$
	1	2	3	4	5	
0	0	1	0	1	1	0
1	0	0	1	1	1	0
2	1	1	0	0	1	0
3	0	0	1	1	1	0
4	0	0	1	1	1	0
5	1	1	0	0	1	0
6	0	0	1	1	1	0
7	0	1	0	1	1	0

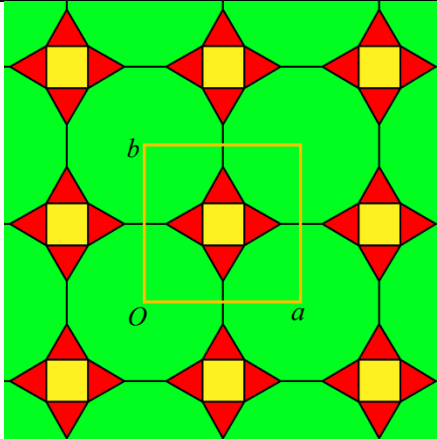
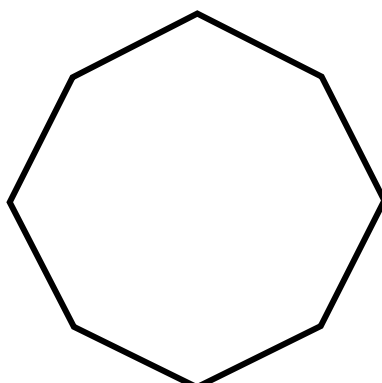
Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$		$\delta_{i,k}^{(2)}$	
	k		k	
	0	1	0	1
0	1	1	0	0
1	1	0	0	0
2	1	0	0	0
3	1	0	0	0
4	1	1	0	0
5	1	0	0	0
6	1	0	0	0
7	1	0	0	0

For $n \geq 1$

$$e_n(u_2) = 2r_2(n-1; 2, 3) + 4r_2(n-2; 2, 3) + 4r_2(n-3; 2, 3) + 6r_2(n-4; 2, 3) + 8r_2(n-5; 2, 3) + 4r_1(n; 2) + 2r_1(n-1; 2) + 4r_1(n; 3).$$

$$\text{For } n \geq 1 \quad e_n(u_2) = 4n, n \equiv 0, 1, 2, 3, 4, 5(\text{mod } 6).$$

cph	Plane group	a	b	$\gamma, ^\circ$	
	$p4mm$	3.7321	3.7321	90	
	Vertex	CN	x	y	
	u_1	3	0.1340	0.5	
	u_2	4	0.3660	0.3660	
Growth polygon	Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
	0	1/4	0	0	4
	1	1/6	1/6	45	6
	2	0	1/4	90	4
	3	-1/6	1/6	135	6
	4	-1/4	0	180	4
	5	-1/6	-1/6	225	6
	6	0	-1/4	270	4
	7	1/6	-1/6	315	6

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k										$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	
0	1	1	0	0	0	1	2	1	1	1	0
1	0	1	2	0	0	0	1	2	1	1	2
2	1	1	0	0	0	1	2	1	1	1	4
3	0	1	2	0	0	0	1	2	1	1	0
4	0	1	2	0	0	0	1	2	1	1	0
5	1	1	0	0	0	1	2	1	1	1	4
6	0	1	2	0	0	0	1	2	1	1	2
7	1	1	0	0	0	1	2	1	1	1	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

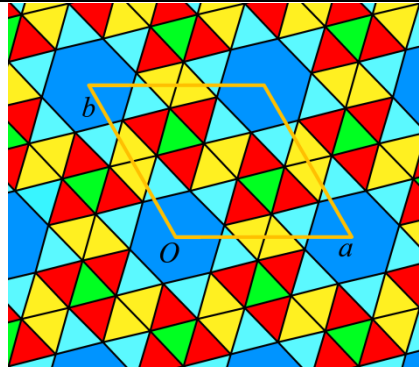
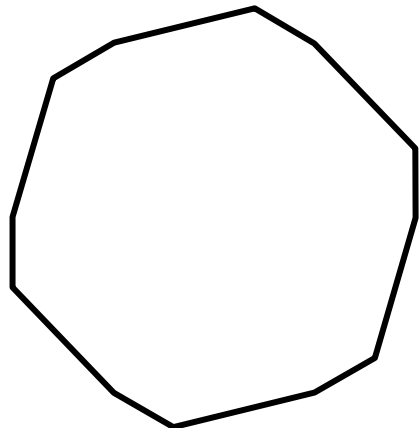
Number of the sector, i	$\delta_{i,k}^{(1)}$					$\delta_{i,k}^{(2)}$				
	k					k				
	0	1	2	3	4	0	1	2	3	4
0	1	0	0	1	0	0	0	0	0	0
1	1	0	0	0	1	0	0	0	0	0
2	1	1	2	1	0	1	1	1	2	0

For $n \geq 7$

$$\begin{aligned} e_n(u_2) = & 2r_2(n-1;4,6) + 3r_2(n-2;4,6) + 3r_2(n-3;4,6) + 6r_2(n-4;4,6) + 8r_2(n-5;4,6) + 5r_2(n-6;4,6) + \\ & + 5r_2(n-7;4,6) + 4r_2(n-8;4,6) + 8r_2(n-9;4,6) + 11r_2(n-10;4,6) + 4r_2(n-11;4,6) + 2r_2(n-12;4,6) + \\ & + r_2(n-13;4,6) + r_2(n-15;4,6) + r_2(n-16;4,6) + 5r_1(n;4) + 4r_1(n-1;4) + 2r_1(n-2;4) + 3r_1(n-3;4) + \\ & + 6r_1(n;6) + 5r_1(n-1;6) + 3r_1(n-2;6) + r_1(n-3;6) + r_1(n-4;6) + r_1(n-5;6). \end{aligned}$$

For $n \geq 7$

$$e_n(u_2) = \begin{cases} \frac{8n-3}{3}, n \equiv 0, 6(\text{mod } 12) \\ \frac{8n+10}{3}, n \equiv 1(\text{mod } 12) \\ \frac{8n-1}{3}, n \equiv 2, 8(\text{mod } 12) \end{cases}, e_n(u_2) = \begin{cases} \frac{8n-6}{3}, n \equiv 3(\text{mod } 12) \\ \frac{8n+4}{3}, n \equiv 4, 10(\text{mod } 12) \\ \frac{8n+2}{3}, n \equiv 5(\text{mod } 12) \end{cases}, e_n(u_2) = \begin{cases} \frac{8n-2}{3}, n \equiv 7(\text{mod } 12) \\ \frac{8n+6}{3}, n \equiv 9(\text{mod } 12) \\ \frac{8n-10}{3}, n \equiv 11(\text{mod } 12) \end{cases}.$$

kra	Plane group	a	b	$\gamma, ^\circ$	
	$p6$	3.6056	3.6056	120	
	Vertex	CN	x	y	
	u_1	6	0.1539	0.5385	
	u_2	5	0.3077	0.0769	
Growth polygon	Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
		x_i	y_i		
	0	1/4	0	0	4
	1	3/10	1/10	19.107	10
	2	1/4	1/4	60	4
	3	1/5	3/10	79.107	10
	4	0	1/4	120	4
	5	-1/10	1/5	139.107	10
	6	-1/4	0	180	4
	7	-3/10	-1/10	199.107	10
	8	-1/4	-1/4	240	4
	9	-1/5	-3/10	259.107	10
	10	0	-1/4	300	4
	11	1/10	-1/5	319.107	10

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k														$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
0	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0
1	0	1	1	2	3	3	3	3	3	1	2	1	0	1	0
2	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0
3	0	1	2	2	2	3	3	3	3	2	2	0	0	1	0
4	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0
5	0	1	2	2	3	2	3	3	2	2	2	1	0	1	0
6	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0
7	0	1	2	1	3	3	3	3	3	2	1	1	0	1	0
8	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0
9	0	0	2	2	3	3	3	3	2	2	2	1	0	1	0
10	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0
11	0	1	2	2	2	3	3	2	3	2	2	1	0	1	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$	$\delta_{i,k}^{(1)}$
	k	k
	0	0
0	1	0
1	1	0
2	1	0
3	1	0
4	1	0
5	1	0
6	1	0
7	1	0
8	1	0
9	1	0
10	1	0
11	1	0

For $n \geq 1$

$$e_n(u_1) = 6r_2(n-1; 4, 10) + 10r_2(n-2; 4, 10) + 16r_2(n-3; 4, 10) + 17r_2(n-4; 4, 10) + 21r_2(n-5; 4, 10) + \\ + 21r_2(n-6; 4, 10) + 22r_2(n-7; 4, 10) + 21r_2(n-8; 4, 10) + 21r_2(n-9; 4, 10) + 17r_2(n-10; 4, 10) + \\ + 16r_2(n-11; 4, 10) + 10r_2(n-12; 4, 10) + 6r_2(n-13; 4, 10) + 12r_2(n-14; 4, 10) + r_1(n; 4) + r_1(n; 8).$$

$$\text{For } n \geq 1 \quad e_n(u_1) = \begin{cases} \frac{27n}{5}, n \equiv 0, 5, 10, 15 \pmod{20} \\ \frac{27n+1}{5}, n \equiv 7, 17 \pmod{20} \\ \frac{27n-1}{5}, n \equiv 3, 13 \pmod{20} \\ \frac{27n+3}{5}, n \equiv 1, 11 \pmod{20} \\ \frac{27n-3}{5}, n \equiv 9, 19 \pmod{20} \end{cases}, \quad e_n(u_1) = \begin{cases} \frac{27n+4}{5}, n \equiv 8, 18 \pmod{20} \\ \frac{27n-4}{5}, n \equiv 2, 12 \pmod{20} \\ \frac{27n+7}{5}, n \equiv 4, 14 \pmod{20} \\ \frac{27n-7}{5}, n \equiv 6, 16 \pmod{20} \end{cases}.$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k														$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
0	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0
1	0	1	2	2	3	2	3	3	2	2	2	1	0	1	0
2	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0
3	0	1	2	2	3	3	2	3	3	1	2	1	0	1	0
4	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0
5	0	1	2	2	3	3	3	2	3	2	1	1	0	1	0
6	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0
7	0	1	2	2	2	3	3	2	3	2	2	1	0	1	0
8	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0
9	0	1	2	1	3	3	2	3	3	2	2	1	0	1	0
10	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0
11	0	1	1	2	3	2	3	3	3	2	2	1	0	1	0

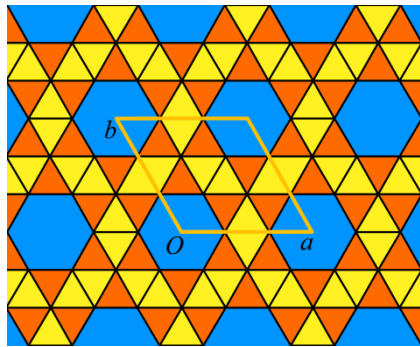
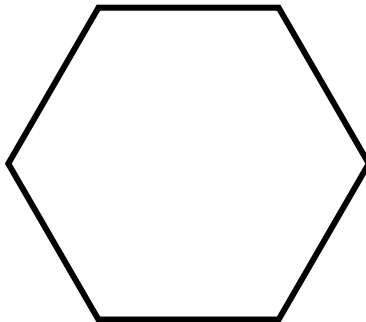
Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$	$\delta_{i,k}^{(1)}$
	k	k
	0	0
0	1	0
1	1	0
2	1	0
3	1	0
4	1	0
5	1	0
6	1	0
7	1	0
8	1	0
9	1	0
10	1	0
11	1	0

For $n \geq 1$

$$e_n(u_2) = 5r_2(n-1; 4, 10) + 11r_2(n-2; 4, 10) + 16r_2(n-3; 4, 10) + 15r_2(n-4; 4, 10) + 22r_2(n-5; 4, 10) + \\ + 22r_2(n-6; 4, 10) + 22r_2(n-7; 4, 10) + 22r_2(n-8; 4, 10) + 22r_2(n-9; 4, 10) + 15r_2(n-10; 4, 10) + \\ + 16r_2(n-11; 4, 10) + 11r_2(n-12; 4, 10) + 5r_2(n-13; 4, 10) + 12r_2(n-14; 4, 10) + r_1(n; 4) + r_1(n; 8).$$

$$\text{For } n \geq 1 \quad e_n(u_2) = \begin{cases} \frac{27n}{5}, n \equiv 0, 5, 10, 15 \pmod{20} \\ \frac{27n+1}{5}, n \equiv 2, 7, 12, 17 \pmod{20} \\ \frac{27n-1}{5}, n \equiv 3, 8, 13, 18 \pmod{20} \\ \frac{27n+2}{5}, n \equiv 9, 19 \pmod{20} \end{cases}, \quad e_n(u_2) = \begin{cases} \frac{27n-2}{5}, n \equiv 1, 11 \pmod{20} \\ \frac{27n+3}{5}, n \equiv 6, 16 \pmod{20} \\ \frac{27n-3}{5}, n \equiv 4, 14 \pmod{20} \end{cases}.$$

krb	Plane group	a	b	$\gamma, ^\circ$	
	$p6mm$	3.0000	3.0000	120	
	Vertex	CN	x	y	
	u_1	6	0.3333	0.6667	
	u_2	5	0.0000	0.3333	
Growth polygon	Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
	0	1/3	0	0	3
	1	1/3	1/3	60	3
	2	0	1/3	120	3
	3	-1/3	0	180	3
	4	-1/3	-1/3	240	3
	5	0	-1/3	300	3

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k						$d(x, x_i)$
	1	2	3	4	5	6	
0	0	0	2	3	2	1	0
1	0	1	2	2	2	1	0
2	0	0	2	3	2	1	0
3	0	1	2	2	2	1	0
4	0	0	2	3	2	1	0
5	0	1	2	2	2	1	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$			$\delta_{i,k}^{(2)}$		
	k			k		
	0	1	2	0	1	2
0	1	1	1	0	0	0
1	1	1	1	0	0	0
2	1	1	1	0	0	0
3	1	1	1	0	0	0
4	1	1	1	0	0	0
5	1	1	1	0	0	0

For $n \geq 1$

$$e_n(u_1) = 3r_2(n-2; 3, 3) + 12r_2(n-3; 3, 3) + 15r_2(n-4; 3, 3) + 12r_2(n-5; 3, 3) + 6r_2(n-6; 3, 3) + 6r_1(n; 3) + 6r_1(n-1; 3) + 6r_1(n-2; 3).$$

$$\text{For } n \geq 1 \quad e_n(u_1) = \begin{cases} 6n, n \equiv 0(\text{mod } 3) \\ 5n+1, n \equiv 1(\text{mod } 3) \\ 5n-1, n \equiv 2(\text{mod } 3) \end{cases}.$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k						$d(x, x_i)$
	1	2	3	4	5	6	
0	0	1	1	3	2	1	0
1	0	1	2	2	2	1	1
2	0	1	2	2	2	1	1
3	0	1	1	3	2	1	0
4	0	1	1	3	2	1	1
5	0	1	2	2	2	1	3

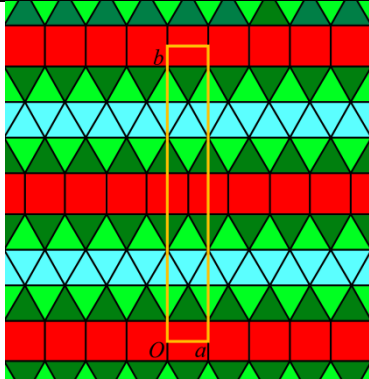
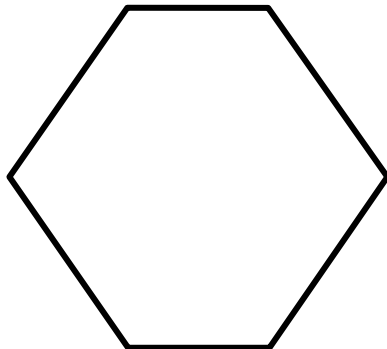
Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$						$\delta_{i,k}^{(2)}$					
	k						k					
	0	1	2	3	4	5	0	1	2	3	4	5
0	1	1	2	1	1	1	1	0	0	0	0	0
1	1	1	1	0	0	0	0	0	0	0	0	0
2	1	1	1	1	1	0	1	1	1	0	0	0
3	1	1	1	0	0	0	0	0	0	0	0	0
4	1	1	1	0	0	0	0	0	0	0	0	0
5	1	2	1	0	0	0	1	1	2	0	0	0

For $n \geq 4$

$$e(u_2, n) = 2r_2(n-2; 3, 3) + 5r_2(n-3; 3, 3) + 11r_2(n-4; 3, 3) + 12r_2(n-5; 3, 3) + 10r_2(n-6; 3, 3) + 5r_2(n-7; 3, 3) + 2r_2(n-8; 3, 3) + r_2(n-9; 3, 3) + 11r_1(n; 3) + 11r_1(n-1; 3) + 11r_1(n-2; 3).$$

$$\text{For } n \geq 4 \quad e_n(u_2) = \begin{cases} \frac{16n-3}{3}, n \equiv 0(\text{mod } 3) \\ \frac{16n+2}{3}, n \equiv 1(\text{mod } 3) \\ \frac{16n+1}{3}, n \equiv 2(\text{mod } 3) \end{cases}.$$

krc	Plane group	a	b	$\gamma, ^\circ$	
	$c2mm$	1.0000	7.1962	90	
	Vertex	CN	x	y	
	u_1	6	0	0.3102	
	u_2	5	0	0.0695	
Growth polygon	Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
	0	1	0	0	1
	1	3/8	1/8	67.369	8
	2	-3/8	1/8	112.631	8
	3	-1	0	180	1
	4	-3/8	-1/8	247.369	8
	5	3/8	-1/8	292.631	8

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k																$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0	1	0	1	1	2	0	1	1	1	0	0	0	0	0	0	0	0
1	0	2	3	2	3	5	6	5	6	4	3	4	3	1	0	1	0
2	1	0	1	1	2	0	1	1	1	0	0	0	0	0	0	0	0
3	1	1	0	1	2	1	0	1	1	0	0	0	0	0	0	0	0
4	0	1	3	2	3	4	6	5	6	5	3	4	3	2	0	1	0
5	1	1	0	1	2	1	0	1	1	0	0	0	0	0	0	0	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$					$\delta_{i,k}^{(2)}$				
	k					k				
	0	1	2	3	4	0	1	2	3	4
0	1	0	0	0	0	0	0	0	0	0
1	1	0	0	0	1	0	0	0	0	0
2	1	0	0	0	1	0	0	0	0	0
3	1	0	0	0	0	0	0	0	0	0
4	1	0	0	0	1	0	0	0	0	0
5	1	0	0	0	1	0	0	0	0	0

For $n \geq 1$

$$e_n(u_1) = 4r_2(n-1;1,8) + 2r_2(n-2;1,8) + 2r_2(n-3;1,8) + 4r_2(n-4;1,8) + 8r_2(n-5;1,8) + 2r_2(n-6;1,8) + \\ + 2r_2(n-7;1,8) + 4r_2(n-8;1,8) + 4r_2(n-9;1,8) + 3r_2(n-2;8,8) + 6r_2(n-3;8,8) + 4r_2(n-4;8,8) + \\ + 6r_2(n-5;8,8) + 9r_2(n-6;8,8) + 12r_2(n-7;8,8) + 10r_2(n-8;8,8) + 12r_2(n-9;8,8) + 9r_2(n-10;8,8) + \\ + 6r_2(n-11;8,8) + 8r_2(n-12;8,8) + 6r_2(n-13;8,8) + 3r_2(n-14;8,8) + 2r_2(n-16;8,8) + \\ + 2r_1(n;1) + 4r_1(n;8) + 4r_1(n-4;8).$$

$$\text{For } n \geq 1 \quad e_n(u_1) = \begin{cases} \frac{11n}{2}, n \equiv 0, 2, 4, 6(\text{mod } 8) \\ \frac{11n+1}{2}, n \equiv 1, 5(\text{mod } 8) \\ \frac{11n-1}{2}, n \equiv 3, 7(\text{mod } 8) \end{cases}.$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k																$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0	1	1	1	0	2	1	1	0	1	0	0	0	0	0	0	0	0
1	0	1	2	2	3	4	5	5	6	5	4	4	3	2	1	1	0
2	1	1	1	0	2	1	1	0	1	0	0	0	0	0	0	0	0
3	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
4	1	2	3	2	4	5	6	5	5	4	3	4	2	1	0	1	0
5	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0

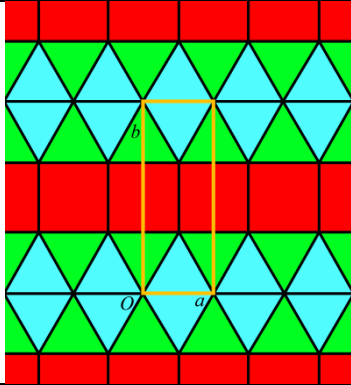
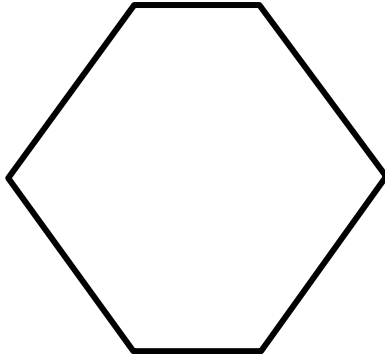
Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$					$\delta_{i,k}^{(2)}$				
	k					k				
	0	1	2	3	4	0	1	2	3	4
0	1	0	0	0	0	0	0	0	0	0
1	1	0	0	0	1	0	0	0	0	0
2	1	0	0	0	1	0	0	0	0	0
3	1	0	0	0	0	0	0	0	0	0
4	1	0	0	0	1	0	0	0	0	0
5	1	0	0	0	1	0	0	0	0	0

For $n \geq 1$

$$e_n(u_2) = 2r_2(n-1;1,8) + 4r_2(n-2;1,8) + 4r_2(n-3;1,8) + 2r_2(n-4;1,8) + 6r_2(n-5;1,8) + 4r_2(n-6;1,8) + \\ + 4r_2(n-7;1,8) + 2r_2(n-8;1,8) + 4r_2(n-9;1,8) + r_2(n-1;8,8) + 3r_2(n-2;8,8) + 5r_2(n-3;8,8) + \\ + 4r_2(n-4;8,8) + 7r_2(n-5;8,8) + 9r_2(n-6;8,8) + 11r_2(n-7;8,8) + 10r_2(n-8;8,8) + 11r_2(n-9;8,8) + \\ + 9r_2(n-10;8,8) + 7r_2(n-11;8,8) + 8r_2(n-12;8,8) + 5r_2(n-13;8,8) + 3r_2(n-14;8,8) + \\ + r_2(n-15;8,8) + 2r_2(n-16;8,8) + 2r_1(n;1) + 4r_1(n;8) + 4r_1(n-4;8).$$

$$\text{For } n \geq 1 \quad e_n(u_1) = \begin{cases} \frac{11n}{2}, n \equiv 0, 2, 4, 6(\text{mod } 8) \\ \frac{11n-1}{2}, n \equiv 1, 5(\text{mod } 8) \\ \frac{11n+1}{2}, n \equiv 3, 7(\text{mod } 8) \end{cases}.$$

krd	Plane group	a	b	$\gamma, ^\circ$	
	$P2mm$	1.0000	2.7320	90	
	Vertex	CN	x	y	
	u_1	6	0	0	
	u_2	5	0.5	0.3170	
Growth polygon	Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
	0	1	0	0	1
	1	1/3	1/3	69.896	3
	2	-1/3	1/3	110.104	3
	3	-1	0	180	1
	4	-1/3	-1/3	249.896	3
	5	1/3	-1/3	290.104	3

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k						$d(x, x_i)$
	1	2	3	4	5	6	
0	1	0	1	1	0	0	0
1	0	2	1	2	0	1	0
2	1	0	1	1	0	0	0
3	1	0	1	1	0	0	0
4	0	2	1	2	0	1	0
5	1	0	1	1	0	0	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$	$\delta_{i,k}^{(2)}$
	k	k
	0	0
0	1	0
1	1	0
2	1	0
3	1	0
4	1	0
5	1	0

For $n \geq 1$

$$e_n(u_1) = 4r_2(n-1;1,3) + 4r_2(n-3;1,3) + 4r_2(n-4;1,3) + 4r_2(n-2;3,3) + 2r_2(n-3;3,3) + 4r_2(n-4;3,3) + 2r_2(n-6;3,3) + 2r_1(n;1) + 4r_1(n;3).$$

$$\text{For } n \geq 1 \quad e_n(u_1) = \begin{cases} \frac{16n}{3}, n \equiv 0(\text{mod } 3) \\ \frac{16n+2}{3}, n \equiv 1(\text{mod } 3) \\ \frac{16n-2}{3}, n \equiv 2(\text{mod } 3) \end{cases}.$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k						$d(x, x_i)$
	1	2	3	4	5	6	
0	0	1	1	1	0	0	0
1	1	2	1	1	0	1	0
2	0	1	1	1	0	0	0
3	1	1	0	1	0	0	0
4	0	1	1	2	1	1	0
5	1	1	0	1	0	0	0

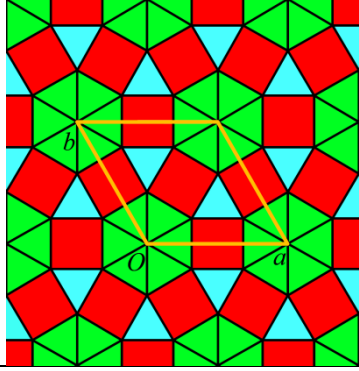
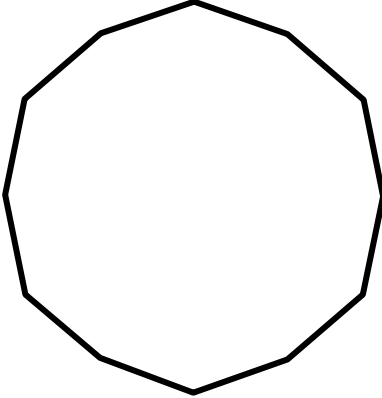
Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$

Number of the sector, i	$\delta_{i,k}^{(1)}$	$\delta_{i,k}^{(2)}$
	k	k
	0	0
0	1	0
1	1	0
2	1	0
3	1	0
4	1	0
5	1	0

For $n \geq 1$

$$e_n(u_2) = 2r_2(n-1;1,3) + 4r_2(n-2;1,3) + 2r_2(n-3;1,3) + 4r_2(n-4;1,3) + r_2(n-1;3,3) + 3r_2(n-2;3,3) + 2r_2(n-3;3,3) + 3r_2(n-4;3,3) + r_2(n-5;3,3) + 2r_2(n-6;3,3) + 2r_1(n;1) + 4r_1(n;3).$$

$$\text{For } n \geq 1 \quad e_n(u_2) = \begin{cases} \frac{16n}{3}, n \equiv 0(\text{mod } 3) \\ \frac{16n-1}{3}, n \equiv 1(\text{mod } 3) \\ \frac{16n+1}{3}, n \equiv 2(\text{mod } 3) \end{cases}.$$

kre		Plane group	a	b	$\gamma, ^\circ$	
	$p6mm$	2.7321	2.7321	120		
	Vertex	CN	x	y		
	u_1	6	0	0		
	u_2	5	0.2113	0.4226		
Growth polygon		Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
	0	1/3	0	0	3	
	1	2/5	1/5	30	5	
	2	1/3	1/3	60	3	
	3	1/5	2/5	90	5	
	4	0	1/3	120	3	
	5	-1/5	1/5	150	5	
	6	-1/3	0	180	3	
	7	-2/5	-1/5	210	5	
	8	-1/3	-1/3	240	3	
	9	-1/5	-2/5	270	5	
	10	0	-1/3	300	3	
	11	1/5	-1/5	330	5	

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k								$d(x, x_i)$
	1	2	3	4	5	6	7	8	
0	0	1	1	1	1	1	1	1	0
1	0	1	1	1	1	1	1	1	0
2	0	1	1	1	1	1	1	1	0
3	0	1	1	1	1	1	1	1	0
4	0	1	1	1	1	1	1	1	0
5	0	1	1	1	1	1	1	1	0
6	0	1	1	1	1	1	1	1	0
7	0	1	1	1	1	1	1	1	0
8	0	1	1	1	1	1	1	1	0
9	0	1	1	1	1	1	1	1	0
10	0	1	1	1	1	1	1	1	0
11	0	1	1	1	1	1	1	1	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$					$\delta_{i,k}^{(2)}$				
	k					k				
	0	1	2	3	4	0	1	2	3	4

0	1	0	0	0	0	0	0	0	0	0
1	1	1	0	0	1	0	0	0	0	0
2	1	0	0	0	0	0	0	0	0	0
3	1	1	0	0	1	0	0	0	0	0
4	1	0	0	0	0	0	0	0	0	0
5	1	1	0	0	1	0	0	0	0	0
6	1	0	0	0	0	0	0	0	0	0
7	1	1	0	0	1	0	0	0	0	0
8	1	0	0	0	0	0	0	0	0	0
9	1	1	0	0	1	0	0	0	0	0
10	1	0	0	0	0	0	0	0	0	0
11	1	1	0	0	1	0	0	0	0	0

For $n \geq 1$

$$e_n(u_1) = 12r_2(n-2;3,5) + 12r_2(n-3;3,5) + 12r_2(n-4;3,5) + 12r_2(n-5;3,5) + 12r_2(n-6;3,5) + 12r_2(n-7;3,5) + \\ + 12r_2(n-8;3,5) + 6r_1(n;3) + 6r_1(n;5) + 6r_1(n-1;5) + 6r_1(n-4;5).$$

$$e_n(u_1) = \begin{cases} \frac{28n}{5}, n \equiv 0(\text{mod } 15) \\ \frac{28n+2}{5}, n \equiv 1(\text{mod } 15) \\ \frac{28n+4}{5}, n \equiv 2(\text{mod } 15) \\ \frac{28n+6}{5}, n \equiv 3(\text{mod } 15) \\ \frac{28n-22}{5}, n \equiv 4(\text{mod } 15) \end{cases}, e_n(u_1) = \begin{cases} \frac{28n+10}{5}, n \equiv 5(\text{mod } 15) \\ \frac{28n+12}{5}, n \equiv 6(\text{mod } 15) \\ \frac{28n-16}{5}, n \equiv 7(\text{mod } 15) \\ \frac{28n+16}{5}, n \equiv 8(\text{mod } 15) \\ \frac{28n-12}{5}, n \equiv 9(\text{mod } 15) \end{cases}, e_n(u_1) = \begin{cases} \frac{28n-10}{5}, n \equiv 10(\text{mod } 15) \\ \frac{28n+22}{5}, n \equiv 11(\text{mod } 15) \\ \frac{28n-6}{5}, n \equiv 12(\text{mod } 15) \\ \frac{28n-4}{5}, n \equiv 13(\text{mod } 15) \\ \frac{28n-2}{5}, n \equiv 14(\text{mod } 15) \end{cases}.$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k								$d(x, x_i)$
	1	2	3	4	5	6	7	8	
0	0	1	1	1	1	1	1	1	0
1	0	1	1	1	1	1	1	1	0
2	0	1	0	1	1	2	1	1	0
3	0	1	0	1	1	2	1	1	0
4	0	1	1	1	1	1	1	1	0
5	0	1	1	1	1	1	1	1	0
6	0	1	1	2	1	1	0	1	0
7	0	0	1	2	1	1	1	1	0
8	0	0	1	2	1	1	1	1	0
9	0	0	1	2	1	1	1	1	0
10	0	0	1	2	1	1	1	1	0
11	0	1	1	2	1	1	0	1	0

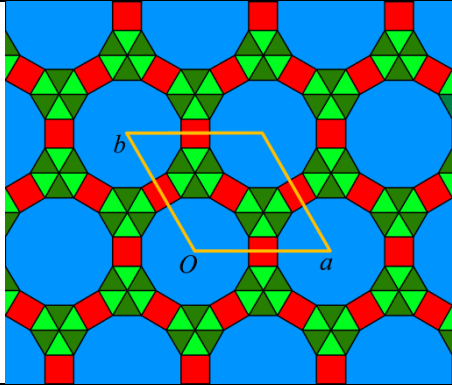
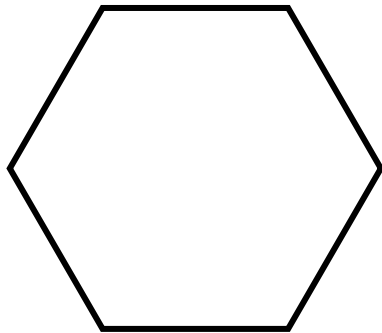
Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$					$\delta_{i,k}^{(2)}$				
	k					k				
	0	1	2	3	4	0	1	2	3	4
0	1	0	0	0	0	0	0	0	0	0
1	1	0	0	0	1	0	0	0	0	0
2	1	1	0	0	0	0	0	0	0	0
3	1	0	0	1	1	0	0	0	0	0
4	1	1	0	0	0	0	0	0	0	0
5	1	0	0	0	1	0	0	0	0	0
6	1	0	0	0	0	0	0	0	0	0
7	1	1	0	0	0	0	0	0	0	0
8	1	0	1	0	0	0	0	0	0	0
9	1	1	1	0	0	0	0	0	0	0
10	1	0	1	0	0	0	0	0	0	0
11	1	1	0	0	0	0	0	0	0	0

For $n \geq 1$

$$e_n(u_2) = 8r_2(n-2;3,5) + 10r_2(n-3;3,5) + 18r_2(n-4;3,5) + 12r_2(n-5;3,5) + 14r_2(n-6;3,5) + \\ + 10r_2(n-7;3,5) + 12r_2(n-8;3,5) + 6r_1(n;3) + 2r_1(n-1;3) + 2r_1(n-2;3) + 6r_1(n;5) + 3r_1(n-1;5) + \\ + r_1(n-2;5) + r_1(n-3;5) + 3r_1(n-4;5).$$

$$\text{For } n \geq 1 \quad e_n(u_2) = \begin{cases} \frac{28n}{5}, n \equiv 0, 5, 10 \pmod{15} \\ \frac{28n-3}{5}, n \equiv 1, 6, 11 \pmod{15} \\ \frac{28n-1}{5}, n \equiv 2, 7, 12 \pmod{15} \end{cases}, \quad e_n(u_2) = \begin{cases} \frac{28n+1}{5}, n \equiv 3, 8, 13 \pmod{15} \\ \frac{28n+3}{5}, n \equiv 4, 9, 14 \pmod{15} \end{cases}.$$

krf	Plane group	a	b	$\gamma, ^\circ$	
	$p6mm$	4.7321	4.7321	120	
	Vertex	CN	x	y	
	u_1	6	0.3333	0.6667	
	u_2	4	0.1220	0.4553	
Growth polygon	Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
	0	$1/5$	0	0	5
	1	$1/5$	$1/5$	60	5
	2	0	$1/5$	120	5
	3	$-1/5$	0	180	5
	4	$-1/5$	$-1/5$	240	5
	5	0	$-1/5$	300	5

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k										$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	
0	0	0	0	0	2	4	3	2	2	1	0
1	0	2	3	2	2	2	0	0	2	1	0
2	0	0	0	0	2	4	3	2	2	1	0
3	0	2	3	2	2	2	0	0	2	1	0
4	0	0	0	0	2	4	3	2	2	1	0
5	0	2	3	2	2	2	0	0	2	1	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$					$\delta_{i,k}^{(2)}$				
	k					k				
	0	1	2	3	4	0	1	2	3	4
0	1	1	0	0	1	0	0	0	0	0
1	1	1	0	0	1	0	0	0	0	0
2	1	1	0	0	1	0	0	0	0	0
3	1	1	0	0	1	0	0	0	0	0
4	1	1	0	0	1	0	0	0	0	0
5	1	1	0	0	1	0	0	0	0	0

For $n \geq 1$

$$e_n(u_1) = 6r_2(n-2;5,5) + 9r_2(n-3;5,5) + 6r_2(n-4;5,5) + 12r_2(n-5;5,5) + 18r_2(n-6;5,5) + 9r_2(n-7;5,5) + 6r_2(n-8;5,5) + 12r_2(n-9;5,5) + 6r_2(n-10;5,5) + 6r_1(n;5) + 6r_1(n-1;5) + 6r_1(n-4;5).$$

$$\text{For } n \geq 1 \quad e_n(u_1) = \begin{cases} \frac{18n}{5}, n \equiv 0(\text{mod } 5) \\ 3n, n \equiv 2,3(\text{mod } 5) \end{cases}, \quad e_n(u_1) = \begin{cases} \frac{18n+12}{5}, n \equiv 1(\text{mod } 5) \\ \frac{18n-12}{5}, n \equiv 4(\text{mod } 5) \end{cases}.$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k										$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	
0	0	1	1	1	1	3	3	2	1	1	0
1	0	2	3	2	2	2	0	0	2	1	1
2	1	2	2	1	1	1	1	2	2	1	3
3	1	2	2	1	1	1	1	2	2	1	0
4	0	1	1	1	1	3	3	2	1	1	3
5	0	1	1	1	1	3	3	2	1	1	2

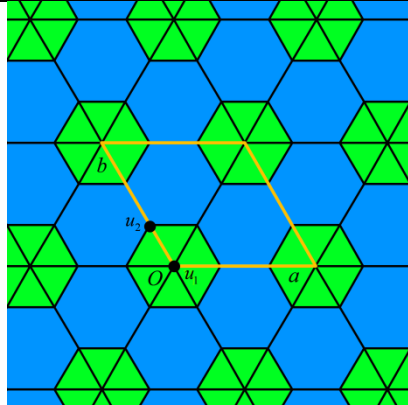
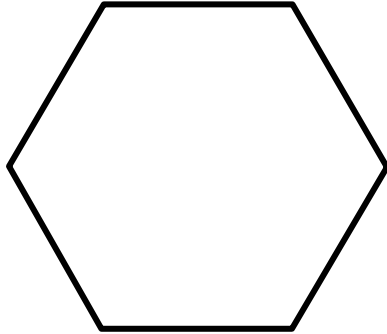
Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$								$\delta_{i,k}^{(2)}$							
	k								k							
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7
0	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0
1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
2	1	0	0	1	2	1	0	0	1	1	0	0	1	1	1	0
3	1	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0
4	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
5	1	1	1	2	3	1	0	0	1	1	1	1	1	0	0	0

For $n \geq 4$

$$e_n(u_2) = r_2(n-1;5,5) + 3r_2(n-2;5,5) + 5r_2(n-3;5,5) + 7r_2(n-4;5,5) + 8r_2(n-5;5,5) + 10r_2(n-6;5,5) + 9r_2(n-7;5,5) + 9r_2(n-8;5,5) + 10r_2(n-9;5,5) + 10r_2(n-10;5,5) + 6r_2(n-11;5,5) + 4r_2(n-12;5,5) + 2r_2(n-13;5,5) + 8r_1(n;5) + 9r_1(n-1;5) + 10r_1(n-2;5) + 7r_1(n-3;5) + 5r_1(n-4;5).$$

$$\text{For } n \geq 4 \quad e_n(u_2) = \begin{cases} \frac{18n-10}{5}, n \equiv 0(\text{mod } 5) \\ \frac{17n+3}{5}, n \equiv 1(\text{mod } 5) \\ \frac{16n+13}{5}, n \equiv 2(\text{mod } 5) \end{cases}, \quad e_n(u_2) = \begin{cases} \frac{16n+2}{5}, n \equiv 3(\text{mod } 5) \\ \frac{17n-8}{5}, n \equiv 4(\text{mod } 5) \end{cases}.$$

krg		Plane group	a	b	$\gamma, ^\circ$	
		$p6mm$	3.0000	3.0000	120	
		Vertex	CN	x	y	
		u_1	6	0	0	
		u_2	4	0	0.3333	
Growth polygon		Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
			x_i	y_i		
		0	1/3	0	0	3
		1	1/3	1/3	60	3
		2	0	1/3	120	3
		3	-1/3	0	180	3
		4	-1/3	-1/3	240	3
		5	0	-1/3	300	3

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k						$d(x, x_i)$
	1	2	3	4	5	6	
0	0	0	2	2	2	1	0
1	0	0	2	2	2	1	0
2	0	0	2	2	2	1	0
3	0	0	2	2	2	1	0
4	0	0	2	2	2	1	0
5	0	0	2	2	2	1	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$			$\delta_{i,k}^{(2)}$		
	k			k		
	0	1	2	0	1	2
0	1	1	1	0	0	0
1	1	1	1	0	0	0
2	1	1	1	0	0	0
3	1	1	1	0	0	0
4	1	1	1	0	0	0
5	1	1	1	0	0	0

For $n \geq 1$

$$e_n(u_1) = 12r_2(n-3;3,3) + 12r_2(n-4;3,3) + 12r_2(n-5;3,3) + 12r_2(n-6;3,3) + 6r_1(n;3) + 6r_1(n-1;3) + 6r_1(n-2;3).$$

$$\text{For } n \geq 1 \quad e_n(u_1) = \begin{cases} 6n, n \equiv 0(\text{mod } 3) \\ 4n+2, n \equiv 1(\text{mod } 3) \\ 4n-2, n \equiv 2(\text{mod } 3) \end{cases}.$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k						$d(x, x_i)$
	1	2	3	4	5	6	
0	0	0	2	2	2	1	3
1	0	0	2	2	2	1	2
2	0	0	2	2	2	1	2
3	0	0	2	2	2	1	3
4	0	0	2	2	2	1	1
5	0	0	2	2	2	1	1

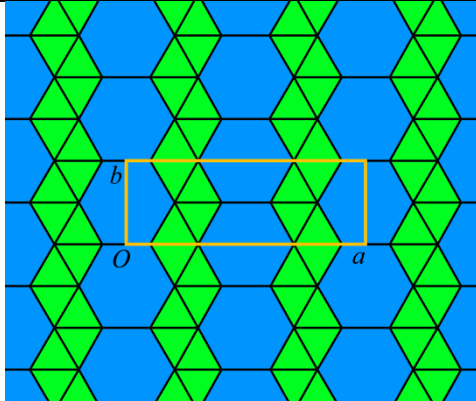
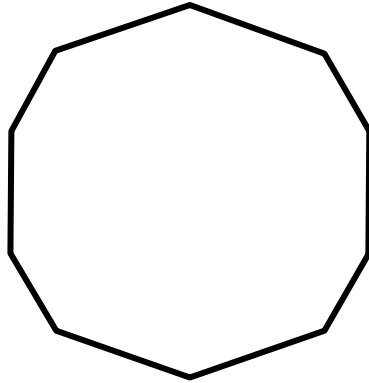
Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$							$\delta_{i,k}^{(2)}$						
	k							k						
	0	1	2	3	4	5	6	0	1	2	3	4	5	6
0	1	1	1	1	1	0	0	1	1	1	1	1	0	0
1	1	1	1	1	1	0	0	1	2	1	1	0	0	0
2	1	1	1	0	0	0	0	0	0	0	0	0	0	0
3	1	2	2	2	0	0	0	1	1	1	0	0	0	0
4	1	1	1	1	1	1	1	1	1	1	0	0	0	0
5	1	1	1	0	0	0	0	0	0	0	0	0	0	0

For $n \geq 5$

$$e_n(u_2) = 4r_2(n-4;3,3) + 8r_2(n-5;3,3) + 12r_2(n-6;3,3) + 10r_2(n-7;3,3) + 6r_2(n-8;3,3) + 2r_2(n-9;3,3) + 16r_1(n;3) + 16r_1(n-1;3) + 14r_1(n-2;3).$$

$$\text{For } n \geq 5 \quad e_n(u_2) = \begin{cases} \frac{14n}{3}, n \equiv 0(\text{mod } 3) \\ \frac{14n+4}{3}, n \equiv 1(\text{mod } 3) \\ \frac{14n-4}{3}, n \equiv 2(\text{mod } 3) \end{cases}.$$

krh	Plane group	a	b	$\gamma, ^\circ$	
	$c2mm$	5.0000	1.7321	90	
	Vertex	CN	x	y	
	u_1	5	0.3	0	
	u_2	4	0.1	0	
Growth polygon	Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
	0	1/6	1/6	19.107	6
	1	1/8	3/8	46.103	8
	2	0	1/2	90	2
	3	-1/8	3/8	133.897	8
	4	-1/6	1/6	160.893	6
	5	-1/6	-1/6	199.107	6
	6	-1/8	-3/8	226.103	8
	7	0	-1/2	270	2
	8	1/8	-3/8	313.897	8
	9	1/6	-1/6	340.893	6

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k														$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
0	0	1	1	1	1	2	3	1	1	2	2	0	0	1	0
1	1	0	0	1	2	1	0	1	1	1	0	0	0	0	0
2	1	1	0	0	2	2	0	0	1	1	0	0	0	0	0
3	0	0	1	1	1	1	3	2	1	2	2	1	0	1	0
4	1	1	1	2	2	3	1	1	3	0	0	1	0	0	0
5	0	0	1	1	1	1	3	2	1	2	2	1	0	1	0
6	1	1	0	0	2	2	0	0	1	1	0	0	0	0	0
7	1	0	0	1	2	1	0	1	1	1	0	0	0	0	0
8	0	1	1	1	1	2	3	1	1	2	2	0	0	1	0
9	0	0	1	1	1	3	2	2	3	1	1	1	0	0	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$					$\delta_{i,k}^{(2)}$				
	k					k				
	0	1	2	3	4	0	1	2	3	4
0	1	0	0	1	0	0	0	0	0	0
1	1	0	0	0	1	0	0	0	0	0

2	1	0	0	0	0	0	0	0	0	0
3	1	0	0	0	1	0	0	0	0	0
4	1	0	0	1	0	0	0	0	0	0
5	1	0	0	1	0	0	0	0	0	0
6	1	0	0	0	1	0	0	0	0	0
7	1	0	0	0	0	0	0	0	0	0
8	1	0	0	0	1	0	0	0	0	0
9	1	0	0	1	0	0	0	0	0	0

For $n \geq 1$

$$e_n(u_1) = 4r_2(n-1; 2, 8) + 2r_2(n-2; 2, 8) + 2r_2(n-4; 2, 8) + 8r_2(n-5; 2, 8) + 6r_2(n-6; 2, 8) + 2r_2(n-8; 2, 8) + \\ + 4r_2(n-9; 2, 8) + 4r_2(n-10; 2, 8) + r_2(n-1; 6, 6) + r_2(n-2; 6, 6) + 2r_2(n-3; 6, 6) + 3r_2(n-4; 6, 6) + \\ + 3r_2(n-5; 6, 6) + 6r_2(n-6; 6, 6) + 3r_2(n-7; 6, 6) + 3r_2(n-8; 6, 6) + 6r_2(n-9; 6, 6) + r_2(n-10; 6, 6) + \\ + r_2(n-11; 6, 6) + 2r_2(n-12; 6, 6) + 2r_2(n-2; 6, 8) + 4r_2(n-3; 6, 8) + 4r_2(n-4; 6, 8) + 4r_2(n-5; 6, 8) + \\ + 6r_2(n-6; 6, 8) + 12r_2(n-7; 6, 8) + 6r_2(n-8; 6, 8) + 4r_2(n-9; 6, 8) + 8r_2(n-10; 6, 8) + 8r_2(n-11; 6, 8) + \\ + 2r_2(n-12; 6, 8) + 4r_2(n-14; 6, 8) + 2r_1(n; 2) + 4r_1(n; 6) + 4r_1(n-3; 6) + 4r_1(n; 8) + 4r_1(n-4; 8).$$

$$\text{For } n \geq 1 \quad e_n(u_1) = \begin{cases} 4n+1, n \equiv 1, 4, 7, 10, 13, 16, 19, 22 \pmod{24} \\ \frac{14n}{3}, n \equiv 0, 3, 6, 9, 12, 15, 18, 21 \pmod{24} \\ 4n-1, n \equiv 2, 5, 8, 11, 14, 17, 20, 23 \pmod{24} \end{cases}.$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k														$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
0	0	1	0	1	2	1	2	2	2	1	2	1	0	1	0
1	1	1	1	0	1	2	1	0	0	1	0	0	0	0	0
2	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
3	0	1	1	0	2	2	2	1	2	2	1	1	0	1	0
4	1	1	0	2	3	1	1	3	2	0	1	1	0	0	0
5	0	1	1	0	2	2	2	1	2	2	1	1	0	1	0
6	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
7	1	1	1	0	1	2	1	0	0	1	0	0	0	0	0
8	0	1	0	1	2	1	2	2	2	1	2	1	0	1	0
9	1	0	0	3	1	1	3	2	2	1	1	1	0	0	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

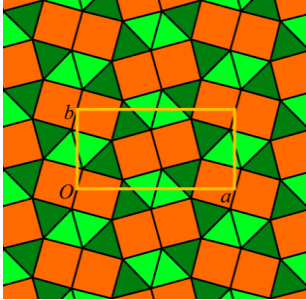
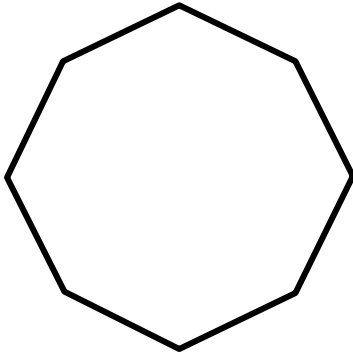
Number of the sector, i	$\delta_{i,k}^{(1)}$					$\delta_{i,k}^{(2)}$				
	k					k				
	0	1	2	3	4	0	1	2	3	4
0	1	0	0	1	0	0	0	0	0	0
1	1	0	0	0	1	0	0	0	0	0
2	1	0	0	0	0	0	0	0	0	0
3	1	0	0	0	1	0	0	0	0	0
4	1	0	0	1	0	0	0	0	0	0
5	1	0	0	1	0	0	0	0	0	0
6	1	0	0	0	1	0	0	0	0	0

7	1	0	0	0	0	0	0	0	0	0
8	1	0	0	0	1	0	0	0	0	0
9	1	0	0	1	0	0	0	0	0	0

For $n \geq 1$

$$\begin{aligned}
e_n(u_2) = & 2r_2(n-1; 2, 8) + 2r_2(n-2; 2, 8) + 4r_2(n-3; 2, 8) + 2r_2(n-4; 2, 8) + 4r_2(n-5; 2, 8) + 6r_2(n-6; 2, 8) + \\
& + 4r_2(n-7; 2, 8) + 2r_2(n-8; 2, 8) + 2r_2(n-9; 2, 8) + 4r_2(n-10; 2, 8) + 2r_2(n-1; 6, 6) + r_2(n-2; 6, 6) + \\
& + 5r_2(n-4; 6, 6) + 4r_2(n-5; 6, 6) + 2r_2(n-6; 6, 6) + 4r_2(n-7; 6, 6) + 5r_2(n-8; 6, 6) + 4r_2(n-9; 6, 6) + \\
& + r_2(n-10; 6, 6) + 2r_2(n-11; 6, 6) + 2r_2(n-12; 6, 6) + 4r_2(n-2; 6, 8) + 2r_2(n-3; 6, 8) + 2r_2(n-4; 6, 8) + \\
& + 8r_2(n-5; 6, 8) + 6r_2(n-6; 6, 8) + 8r_2(n-7; 6, 8) + 6r_2(n-8; 6, 8) + 8r_2(n-9; 6, 8) + 6r_2(n-10; 6, 8) + \\
& + 6r_2(n-11; 6, 8) + 4r_2(n-12; 6, 8) + 4r_2(n-14; 6, 8) + 2r_1(n; 2) + 4r_1(n; 6) + 4r_1(n-3; 6) + \\
& + 4r_1(n; 8) + 4r_1(n-4; 8).
\end{aligned}$$

$$\text{For } n \geq 1 \quad e_n(u_2) = \begin{cases} \frac{13n-1}{3}, n \equiv 1, 4, 7, 10, 13, 16, 19, 22 \pmod{24} \\ 4n, n \equiv 0, 3, 6, 9, 12, 15, 18, 21 \pmod{24} \\ \frac{13n+1}{3}, n \equiv 2, 5, 8, 11, 14, 17, 20, 23 \pmod{24} \end{cases}.$$

krj	Plane group	a	b	$\gamma, ^\circ$	
	$p2gg$	3.8636	1.9319	90	
	Vertex	CN	x	y	
	u_1	5	0.0335	0.2500	
	u_2	5	0.2835	0.1160	
Growth polygon	Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
	0	1/4	0	0	4
	1	1/6	1/3	45	6
	2	0	1/2	90	2
	3	-1/6	1/3	135	6
	4	-1/4	0	180	4
	5	-1/6	-1/3	225	6
	6	0	-1/2	270	2
	7	1/6	-1/3	315	6

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k										$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	
0	0	1	2	2	3	2	3	2	0	1	0
1	0	1	1	1	2	1	1	1	0	0	0
2	1	0	1	2	2	1	0	1	0	0	0
3	1	0	1	2	3	3	2	2	1	1	0
4	0	1	2	2	2	2	3	2	1	1	0
5	1	1	1	1	1	1	1	1	0	0	0
6	0	1	1	1	2	1	1	1	0	0	0
7	1	1	1	2	3	2	2	2	1	1	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$						$\delta_{i,k}^{(2)}$					
	k						k					
	0	1	2	3	4	5	0	1	2	3	4	5
0	1	0	1	0	0	0	0	0	0	0	0	0
1	1	1	0	1	0	0	0	0	0	0	0	0
2	1	0	0	0	0	0	0	0	0	0	0	0
3	1	0	1	1	0	0	0	0	0	0	0	0
4	1	0	1	0	0	0	0	0	0	0	0	0
5	1	0	0	1	0	1	0	0	0	0	0	0
6	1	0	0	0	0	0	0	0	0	0	0	0
7	1	0	0	1	1	0	0	0	0	0	0	0

For $n \geq 1$

$$e_n(u_1) = 2r_2(n-1; 2, 6) + 3r_2(n-2; 2, 6) + 4r_2(n-3; 2, 6) + 5r_2(n-4; 2, 6) + 7r_2(n-5; 2, 6) + 4r_2(n-6; 2, 6) + \\ 3r_2(n-7; 2, 6) + 4r_2(n-8; 2, 6) + 2r_2(n-1; 4, 6) + 3r_2(n-2; 4, 6) + 6r_2(n-3; 4, 6) + 8r_2(n-4; 4, 6) + \\ + 11r_2(n-5; 4, 6) + 9r_2(n-6; 4, 6) + 10r_2(n-7; 4, 6) + 8r_2(n-8; 4, 6) + 3r_2(n-9; 4, 6) + 4r_2(n-10; 4, 6) + \\ 2r_1(n; 2) + 2r_1(n; 4) + 2r_1(n-2; 4) + 4r_1(n; 6) + r_1(n-1; 6) + r_1(n-2; 6) + 4r_1(n-3; 6) + r_1(n-4; 6) + r_1(n-5; 6).$$

$$\text{For } n \geq 1 \quad e_n(u_1) = \begin{cases} \frac{16n}{3}, n \equiv 0, 3, 6, 9(\text{mod } 12) \\ \frac{16n-1}{3}, n \equiv 1, 4, 7, 10(\text{mod } 12) . \\ \frac{16n+1}{3}, n \equiv 2, 5, 8, 11(\text{mod } 12) \end{cases}$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k										$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	
0	1	1	2	2	3	3	2	1	0	1	0
1	0	1	1	1	2	1	1	1	0	0	0
2	1	0	1	2	1	1	1	1	0	0	0
3	1	1	2	2	2	3	2	1	1	1	0
4	0	1	2	2	3	2	2	2	1	1	0
5	1	1	1	1	2	1	0	1	0	0	0
6	0	1	2	1	1	1	1	1	0	0	0
7	0	1	2	2	3	2	2	2	1	1	0

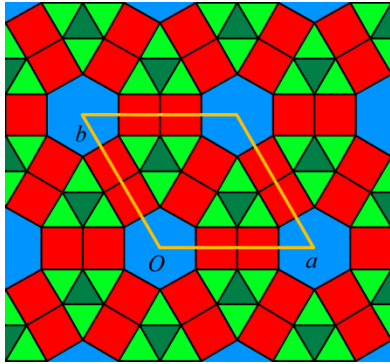
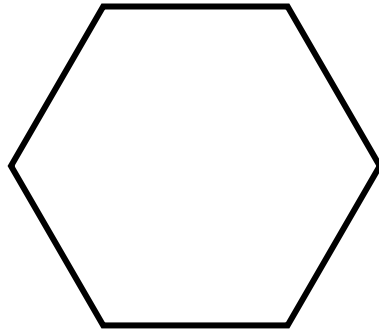
Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$						$\delta_{i,k}^{(2)}$					
	k						k					
	0	1	2	3	4	5	0	1	2	3	4	5
0	1	0	0	0	0	0	0	0	0	0	0	0
1	1	0	0	1	0	0	0	0	0	0	0	0
2	1	0	0	0	0	0	0	0	0	0	0	0
3	1	0	1	0	0	1	0	0	0	0	0	0
4	1	0	0	0	0	0	0	0	0	0	0	0
5	1	0	0	0	1	0	0	0	0	0	0	0
6	1	0	0	0	0	0	0	0	0	0	0	0
7	1	1	0	0	1	0	0	0	0	0	0	0

For $n \geq 1$

$$e_n(u_2) = 2r_2(n-1; 2, 6) + 3r_2(n-2; 2, 6) + 5r_2(n-3; 2, 6) + 5r_2(n-4; 2, 6) + 6r_2(n-5; 2, 6) + 4r_2(n-6; 2, 6) + \\ 3r_2(n-7; 2, 6) + 4r_2(n-8; 2, 6) + 2r_2(n-1; 4, 6) + 4r_2(n-2; 4, 6) + 8r_2(n-3; 4, 6) + 8r_2(n-4; 4, 6) + \\ + 11r_2(n-5; 4, 6) + 10r_2(n-6; 4, 6) + 8r_2(n-7; 4, 6) + 6r_2(n-8; 4, 6) + 3r_2(n-9; 4, 6) + 4r_2(n-10; 4, 6) + \\ 2r_1(n; 2) + 2r_1(n; 4) + 4r_1(n; 6) + r_1(n-1; 6) + r_1(n-2; 6) + r_1(n-3; 6) + 2r_1(n-4; 6) + r_1(n-5; 6).$$

$$\text{For } n \geq 1 \quad e_n(u_2) = \begin{cases} \frac{16n}{3}, n \equiv 0, 3, 6, 9(\text{mod } 12) \\ \frac{16n-1}{3}, n \equiv 1, 7(\text{mod } 12) \\ \frac{16n-2}{3}, n \equiv 2, 8(\text{mod } 12) \end{cases}, \quad e_n(u_2) = \begin{cases} \frac{16n+2}{3}, n \equiv 4, 10(\text{mod } 12) \\ \frac{16n+1}{3}, n \equiv 5, 11(\text{mod } 12) \end{cases}.$$

krk	Plane group	a	b	$\gamma, ^\circ$	
	$p6mm$	3.7321	3.7321	120	
	Vertex	CN	x	y	
	u_1	5	0.15470	0.57735	
	u_2	4	0.15470	0.30940	
Growth polygon	Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
	0	1/4	0	0	4
	1	1/4	1/4	60	4
	2	0	1/4	120	4
	3	-1/4	0	180	4
	4	-1/4	-1/4	240	4
	5	0	-1/4	300	4

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k								$d(x, x_i)$
	1	2	3	4	5	6	7	8	
0	0	1	2	2	3	2	1	1	0
1	0	2	2	2	3	1	1	1	0
2	0	1	1	2	3	2	2	1	0
3	1	2	1	2	2	1	2	1	0
4	0	1	1	2	3	2	2	1	0
5	0	2	2	2	3	1	1	1	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$				$\delta_{i,k}^{(2)}$			
	k				k			
	0	1	2	3	0	1	2	3
0	1	1	0	0	0	0	0	0
1	1	1	0	0	0	0	0	0
2	1	1	0	1	0	0	0	0
3	1	0	0	1	0	0	0	0
4	1	0	0	1	0	0	0	0
5	1	1	0	1	0	0	0	0

For $n \geq 1$

$$e_n(u_1) = r_2(n-1; 4, 4) + 9r_2(n-2; 4, 4) + 9r_2(n-3; 4, 4) + 12r_2(n-4; 4, 4) + 17r_2(n-5; 4, 4) + 9r_2(n-6; 4, 4) + 9r_2(n-7; 4, 4) + 6r_2(n-8; 4, 4) + 6r_1(n; 4) + 4r_1(n-1; 4) + 4r_1(n-3; 4).$$

$$\text{For } n \geq 1 \quad e_n(u_1) = \begin{cases} \frac{9n}{2}, n \equiv 0, 2(\text{mod } 4) \\ \frac{9n+1}{2}, n \equiv 1(\text{mod } 4) . \\ \frac{9n-1}{2}, n \equiv 3(\text{mod } 4) \end{cases}$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k								$d(x, x_i)$
	1	2	3	4	5	6	7	8	
0	0	1	2	2	3	2	1	1	0
1	0	1	3	2	3	2	0	1	0
2	0	1	2	2	3	2	1	1	0
3	1	1	2	2	2	2	1	1	0
4	0	0	1	2	3	3	2	1	0
5	1	1	2	2	2	2	1	1	0

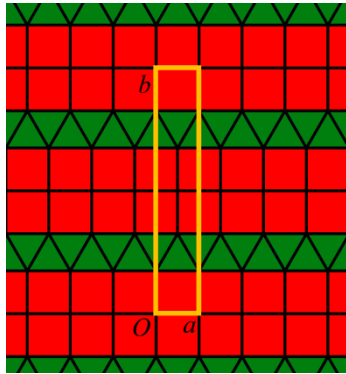
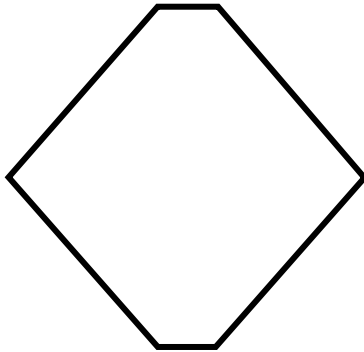
Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$				$\delta_{i,k}^{(2)}$			
	k				k			
	0	1	2	3	0	1	2	3
0	1	0	0	0	0	0	0	0
1	1	1	1	0	0	0	0	0
2	1	1	1	0	0	0	0	0
3	1	0	0	0	0	0	0	0
4	1	0	1	1	0	0	0	0
5	1	0	1	1	0	0	0	0

For $n \geq 1$

$$e_n(u_2) = 2r_2(n-1; 4, 4) + 5r_2(n-2; 4, 4) + 12r_2(n-3; 4, 4) + 12r_2(n-4; 4, 4) + 16r_2(n-5; 4, 4) + 13r_2(n-6; 4, 4) + 6r_2(n-7; 4, 4) + 6r_2(n-8; 4, 4) + 6r_1(n; 4) + 2r_1(n-1; 4) + 4r_1(n-2; 4) + 2r_1(n-3; 4).$$

$$\text{For } n \geq 1 \quad e_n(u_2) = \begin{cases} \frac{9n}{2}, n \equiv 0, 2(\text{mod } 4) \\ \frac{9n-1}{2}, n \equiv 1(\text{mod } 4) . \\ \frac{9n+1}{2}, n \equiv 3(\text{mod } 4) \end{cases}$$

krl	Plane group	a	b	$\gamma, ^\circ$	
	$c2mm$	1.0000	5.7321	90.0	
	Vertex	CN	x	y	
	u_1	5	1/2	0.3254	
	u_2	4	1/2	1/2	
Growth polygon	Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
	0	1	0	0	1
	1	1/6	1/6	80.104	6
	2	-1/6	1/6	99.896	6
	3	-1	0	180	1
	4	-1/6	-1/6	260.104	6
	5	1/6	-1/6	279.896	6

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k												$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	11	12	
0	0	1	1	1	1	1	1	0	0	0	0	0	0
1	1	1	0	2	2	1	1	1	2	0	0	1	0
2	0	1	1	1	1	1	1	0	0	0	0	0	0
3	1	1	0	2	1	0	1	0	0	0	0	0	0
4	0	0	0	1	1	1	2	2	2	1	1	1	0
5	1	1	0	2	1	0	1	0	0	0	0	0	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$				$\delta_{i,k}^{(2)}$			
	k				k			
	0	1	2	3	0	1	2	3
0	1	0	0	0	0	0	0	0
1	1	0	0	1	0	0	0	0
2	1	0	0	1	0	0	0	0
3	1	0	0	0	0	0	0	0
4	1	0	0	1	0	0	0	0
5	1	0	0	1	0	0	0	0

For $n \geq 1$

$$e_n(u_1) = 2r_2(n-1;1,6) + 4r_2(n-2;1,6) + 2r_2(n-3;1,6) + 6r_2(n-4;1,6) + 4r_2(n-5;1,6) + 2r_2(n-6;1,6) + \\ + 4r_2(n-7;1,6) + r_2(n-1;6,6) + r_2(n-2;6,6) + 3r_2(n-4;6,6) + 3r_2(n-5;6,6) + 2r_2(n-6;6,6) + \\ + 3r_2(n-7;6,6) + 3r_2(n-8;6,6) + 4r_2(n-9;6,6) + r_2(n-10;6,6) + r_2(n-11;6,6) + 2r_2(n-12;6,6) + \\ + 2r_1(n;1) + 4r_1(n;6) + 4r_1(n-3;6).$$

$$\text{For } n \geq 1 \quad e_n(u_1) = \begin{cases} \frac{14n}{3}, n \equiv 0,3(\text{mod } 6) \\ \frac{14n+1}{3}, n \equiv 1,4(\text{mod } 6) \\ \frac{14n-1}{3}, n \equiv 2,5(\text{mod } 6) \end{cases}.$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k												$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	11	12	
0	0	2	0	1	2	0	1	0	0	0	0	0	0
1	1	0	0	2	1	1	1	2	2	0	1	1	0
2	0	2	0	1	2	0	1	0	0	0	0	0	0
3	0	2	0	1	2	0	1	0	0	0	0	0	0
4	1	0	0	2	1	1	1	2	2	0	1	1	0
5	0	2	0	1	2	0	1	0	0	0	0	0	0

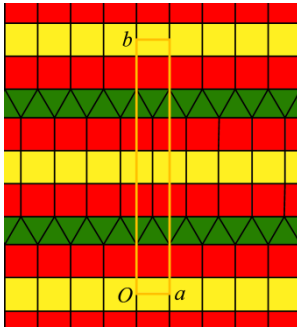
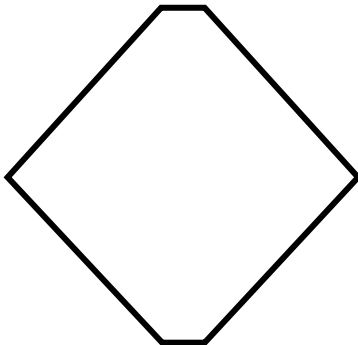
Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$				$\delta_{i,k}^{(2)}$			
	k				k			
	0	1	2	3	0	1	2	3
0	1	0	0	0	0	0	0	0
1	1	0	0	1	0	0	0	0
2	1	0	0	1	0	0	0	0
3	1	0	0	0	0	0	0	0
4	1	0	0	1	0	0	0	0
5	1	0	0	1	0	0	0	0

For $n \geq 1$

$$e_n(u_2) = 8r_2(n-2;1,6) + 4r_2(n-4;1,6) + 8r_2(n-5;1,6) + 4r_2(n-7;1,6) + 2r_2(n-1;6,6) + 4r_2(n-4;6,6) + \\ + 2r_2(n-5;6,6) + 2r_2(n-6;6,6) + 2r_2(n-7;6,6) + 4r_2(n-8;6,6) + 4r_2(n-9;6,6) + 2r_2(n-11;6,6) + \\ + 2r_2(n-12;6,6) + 2r_1(n;1) + 4r_1(n;6) + 4r_1(n-3;6).$$

$$\text{For } n \geq 1 \quad e_n(u_2) = \begin{cases} \frac{14n}{3}, n \equiv 0,3(\text{mod } 6) \\ \frac{14n-2}{3}, n \equiv 1,4(\text{mod } 6) \\ \frac{14n+2}{3}, n \equiv 2,5(\text{mod } 6) \end{cases}.$$

krm	Plane group	a	b	$\gamma, ^\circ$	
	$c2mm$	1.0000	7.7321	90.0	
	Vertex	CN	x	y	
	u_1	5	0	0.6940	
	u_2	4	0	0.4353	
Growth polygon	Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
		x_i	y_i		
	0	1	0	0	1
	1	1/8	1/8	82.631	8
	2	-1/8	1/8	97.369	8
	3	-1	0	180	1
	4	-1/8	-1/8	262.631	8
	5	1/8	-1/8	277.369	8

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k																$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0	1	1	1	0	2	1	1	0	1	0	0	0	0	0	0	0	0
1	0	0	0	0	1	1	1	1	2	2	2	2	1	1	1	1	0
2	1	1	1	0	2	1	1	0	1	0	0	0	0	0	0	0	0
3	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
4	1	1	1	0	2	2	2	1	1	1	1	2	0	0	0	1	0
5	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$					$\delta_{i,k}^{(2)}$				
	k					k				
	0	1	2	3	4	0	1	2	3	4
0	1	0	0	0	0	0	0	0	0	0
1	1	0	0	0	1	0	0	0	0	0
2	1	0	0	0	1	0	0	0	0	0
3	1	0	0	0	0	0	0	0	0	0
4	1	0	0	0	1	0	0	0	0	0
5	1	0	0	0	1	0	0	0	0	0

For $n \geq 1$

$$e_n(u_1) = 2r_2(n-1;1,8) + 4r_2(n-2;1,8) + 4r_2(n-3;1,8) + 2r_2(n-4;1,8) + 6r_2(n-5;1,8) + 4r_2(n-6;1,8) + \\ + 4r_2(n-7;1,8) + 2r_2(n-8;1,8) + 4r_2(n-9;1,8) + r_2(n-1;8,8) + r_2(n-2;8,8) + r_2(n-3;8,8) + \\ + 3r_2(n-5;8,8) + 3r_2(n-6;8,8) + 3r_2(n-7;8,8) + 2r_2(n-8;8,8) + 3r_2(n-9;8,8) + 3r_2(n-10;8,8) + \\ + 3r_2(n-11;8,8) + 4r_2(n-12;8,8) + r_2(n-13;8,8) + r_2(n-14;8,8) + r_2(n-15;8,8) + 2r_2(n-16;8,8) + \\ + 2r_1(n;1) + 4r_1(n;8) + 4r_1(n-4;8).$$

$$\text{For } n \geq 1 \quad e_n(u_1) = \begin{cases} \frac{9n}{2}, n \equiv 0, 2, 4, 6(\text{mod } 8) \\ \frac{9n+1}{2}, n \equiv 1, 5(\text{mod } 8) \\ \frac{9n-1}{2}, n \equiv 3, 7(\text{mod } 8) \end{cases}.$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k																$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0	0	1	2	0	1	1	2	0	1	0	0	0	0	0	0	0	0
1	1	1	0	0	2	2	1	1	1	1	2	2	0	0	1	1	0
2	0	1	2	0	1	1	2	0	1	0	0	0	0	0	0	0	0
3	0	2	1	0	1	2	1	0	1	0	0	0	0	0	0	0	0
4	1	0	0	0	2	1	1	1	1	2	2	2	0	1	1	1	0
5	0	2	1	0	1	2	1	0	1	0	0	0	0	0	0	0	0

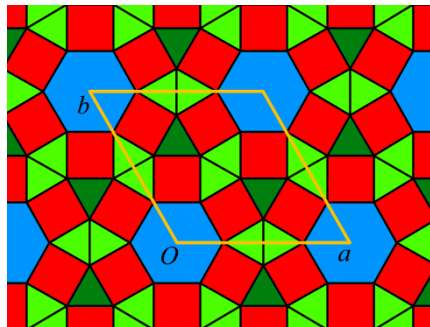
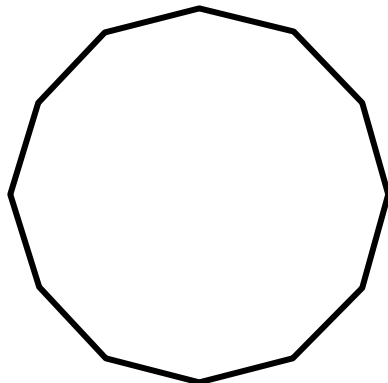
Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$					$\delta_{i,k}^{(2)}$				
	k					k				
	0	1	2	3	4	0	1	2	3	4
0	1	0	0	0	0	0	0	0	0	0
1	1	0	0	0	1	0	0	0	0	0
2	1	0	0	0	1	0	0	0	0	0
3	1	0	0	0	0	0	0	0	0	0
4	1	0	0	0	1	0	0	0	0	0
5	1	0	0	0	1	0	0	0	0	0

For $n \geq 1$

$$e_n(u_2) = 6r_2(n-2;1,8) + 6r_2(n-3;1,8) + 4r_2(n-5;1,8) + 6r_2(n-6;1,8) + 6r_2(n-7;1,8) + 4r_2(n-9;1,8) + \\ + 2r_2(n-1;8,8) + r_2(n-2;8,8) + 4r_2(n-5;8,8) + 3r_2(n-6;8,8) + 2r_2(n-7;8,8) + 2r_2(n-8;8,8) + \\ + 2r_2(n-9;8,8) + 3r_2(n-10;8,8) + 4r_2(n-11;8,8) + 4r_2(n-12;8,8) + r_2(n-14;8,8) + 2r_2(n-15;8,8) + \\ + 2r_2(n-16;8,8) + 2r_1(n;1) + 4r_1(n;8) + 4r_1(n-4;8).$$

$$\text{For } n \geq 1 \quad e_n(u_2) = \begin{cases} \frac{9n}{2}, n \equiv 0, 2, 4, 6(\text{mod } 8) \\ \frac{9n+1}{2}, n \equiv 3, 7(\text{mod } 8) \\ \frac{9n-1}{2}, n \equiv 1, 5(\text{mod } 8) \end{cases}.$$

k _{rn}	Plane group	<i>a</i>	<i>b</i>	γ, °	
	<i>P6mm</i>	3.7321	3.7321	120	
	Vertex	CN	<i>x</i>	<i>y</i>	
	<i>u</i> ₁	5	0	0.2680	
	<i>u</i> ₂	4	0.1547	0.5774	
Growth polygon	Number of the growth polygon vertex <i>i</i>	Vertex fractional coordinates		α _{<i>i</i>} , °	Length of the ray <i>d</i> (Γ _{<i>i</i>})
	0	1/4	0	0	4
	1	2/7	1/7	30	7
	2	1/4	1/4	60	4
	3	1/7	2/7	90	7
	4	0	1/4	120	4
	5	−1/7	1/7	150	7
	6	−1/4	0	180	4
	7	−2/7	−1/7	210	7
	8	−1/4	−1/4	240	4
	9	−1/7	−2/7	270	7
	10	0	−1/4	300	4
	11	1/7	−1/7	330	7

Vertex *u*₁

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, <i>i</i>	<i>k</i>											<i>d</i> (<i>x</i> , <i>x</i> _{<i>i</i>})
	1	2	3	4	5	6	7	8	9	10	11	
0	0	1	1	1	2	2	1	2	1	0	1	0
1	0	1	1	0	2	2	1	2	1	1	1	0
2	0	1	1	1	2	1	1	2	1	1	1	0
3	0	1	1	1	2	2	1	2	1	0	1	3
4	0	1	1	1	2	2	1	2	1	0	1	3
5	0	1	1	1	2	1	1	2	1	1	1	0
6	0	1	1	0	2	2	1	2	1	1	1	0
7	0	1	1	1	2	2	1	2	1	0	1	0
8	0	0	1	1	1	2	2	2	1	1	1	0
9	0	1	1	1	2	2	1	1	1	1	1	4
10	0	1	1	1	1	1	2	2	1	1	1	3
11	0	0	1	1	1	2	2	2	1	1	1	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number	$\delta_{i,k}^{(1)}$	$\delta_{i,k}^{(2)}$
--------	----------------------	----------------------

of the sector, i	k							k						
	0	1	2	3	4	5	6	0	1	2	3	4	5	6
0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
2	1	0	0	1	0	0	0	0	0	0	0	0	0	0
3	1	0	0	0	0	0	0	1	1	0	0	1	1	0
4	1	1	1	2	1	0	0	1	1	0	0	0	0	0
5	1	1	0	0	1	1	0	1	0	0	0	0	0	0
6	1	0	0	1	0	0	0	0	0	0	0	0	0	0
7	1	0	0	0	0	0	0	0	0	0	0	0	0	0
8	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9	1	1	1	0	0	0	0	1	0	1	1	0	0	0
10	1	2	2	1	1	1	0	1	1	1	1	0	0	0
11	1	0	1	1	0	0	1	0	0	0	0	0	0	0

For $n \geq 5$

$$e_n(u_1) = 6r_2(n-2; 4, 7) + 8r_2(n-3; 4, 7) + 6r_2(n-4; 4, 7) + 17r_2(n-5; 4, 7) + 18r_2(n-6; 4, 7) + 14r_2(n-7; 4, 7) + 22r_2(n-8; 4, 7) + 15r_2(n-9; 4, 7) + 12r_2(n-10; 4, 7) + 15r_2(n-11; 4, 7) + 4r_2(n-12; 4, 7) + 2r_2(n-13; 4, 7) + 4r_2(n-14; 4, 7) + r_2(n-15; 4, 7) + 10r_1(n; 4) + 6r_1(n-1; 4) + 4r_1(n-2; 4) + 8r_1(n-3; 4) + 6r_1(n; 7) + 2r_1(n-1; 7) + 2r_1(n-2; 7) + 4r_1(n-3; 7) + 5r_1(n-4; 7) + 3r_1(n-5; 7) + 4r_1(n-6; 7).$$

$$\text{For } n \geq 5 \quad e_n(u_1) = \begin{cases} \frac{36n}{7}, n \equiv 0, 7, 14, 21(\text{mod } 28) \\ \frac{36n-8}{7}, n \equiv 1, 8, 15, 22(\text{mod } 28) \\ \frac{36n-2}{7}, n \equiv 2, 9, 16, 23(\text{mod } 28) \\ \frac{36n+4}{7}, n \equiv 3, 10, 17, 24(\text{mod } 28) \end{cases}, \quad e_n(u_1) = \begin{cases} \frac{36n-4}{7}, n \equiv 4, 11, 18, 25(\text{mod } 28) \\ \frac{36n+2}{7}, n \equiv 5, 12, 19, 26(\text{mod } 28) \\ \frac{36n+8}{7}, n \equiv 6, 13, 20, 27(\text{mod } 28) \end{cases}.$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k											$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	11	
0	0	1	1	1	2	1	1	2	1	1	1	0
1	0	1	1	1	2	1	1	2	1	1	1	0
2	0	1	1	1	1	1	2	2	1	1	1	0
3	0	1	1	1	2	2	1	2	1	0	1	2
4	0	1	1	1	2	1	1	2	1	1	1	3
5	0	1	0	1	2	1	2	2	1	1	1	0
6	0	1	1	1	2	2	1	1	1	1	1	0
7	0	1	1	1	2	2	1	1	1	1	1	0
8	0	1	0	1	2	1	2	2	1	1	1	0
9	0	1	1	1	2	2	1	1	1	1	1	5
10	0	1	1	1	2	2	1	2	1	0	1	2
11	0	1	1	1	1	1	2	2	1	1	1	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

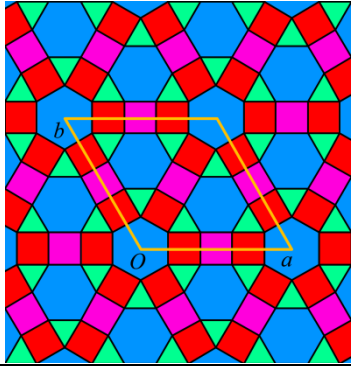
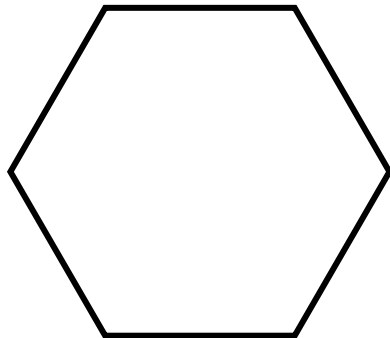
Number of the sector, i	$\delta_{i,k}^{(1)}$							$\delta_{i,k}^{(2)}$						
	k							k						
	0	1	2	3	4	5	6	0	1	2	3	4	5	6
0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1	1	0	0	0	0	0	1	0	0	0	0	0	0	0
2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3	1	0	0	0	0	0	0	1	0	0	1	1	0	1
4	1	1	2	2	0	0	0	1	1	0	0	0	0	0
5	1	1	0	1	1	0	0	0	0	0	0	0	0	0
6	1	0	0	1	0	0	0	0	0	0	0	0	0	0
7	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8	1	0	0	1	0	0	0	0	0	0	0	0	0	0
9	1	1	0	0	0	0	0	1	1	0	1	1	0	0
10	1	1	1	2	1	0	0	1	1	1	1	0	0	0
11	1	0	0	1	1	0	1	1	0	0	0	0	0	0

For $n \geq 6$

$$\begin{aligned}
 e_n(u_2) = & 8r_2(n-2;4,7) + 6r_2(n-3;4,7) + 10r_2(n-4;4,7) + 17r_2(n-5;4,7) + 13r_2(n-6;4,7) + 18r_2(n-7;4,7) + \\
 & + 21r_2(n-8;4,7) + 12r_2(n-9;4,7) + 15r_2(n-10;4,7) + 14r_2(n-11;4,7) + 2r_2(n-12;4,7) + 4r_2(n-13;4,7) + \\
 & + 2r_2(n-14;4,7) + r_2(n-15;4,7) + r_2(n-16;4,7) + 7r_1(n;4) + 7r_1(n-1;4) + 6r_1(n-2;4) + 6r_1(n-3;4) + \\
 & + 6r_1(n;7) + 3r_1(n-1;7) + 2r_1(n-2;7) + 4r_1(n-3;7) + 4r_1(n-4;7) + 3r_1(n-5;7) + 4r_1(n-6;7).
 \end{aligned}$$

For $n \geq 6$

$$e_n(u_2) = \begin{cases} \frac{36n}{7}, n \equiv 7, 21(\text{mod } 28) \\ \frac{36n+13}{7}, n \equiv 1, 15(\text{mod } 28) \\ \frac{36n-2}{7}, n \equiv 9, 23(\text{mod } 28) \\ \frac{36n-10}{7}, n \equiv 3, 17(\text{mod } 28) \\ \frac{36n+10}{7}, n \equiv 11, 25(\text{mod } 28) \\ \frac{36n+2}{7}, n \equiv 5, 19(\text{mod } 28) \\ \frac{36n-13}{7}, n \equiv 13, 27(\text{mod } 28) \end{cases}, e_n(u_2) = \begin{cases} \frac{36n-14}{7}, n \equiv 0(\text{mod } 28) \\ \frac{36n-1}{7}, n \equiv 8(\text{mod } 28) \\ \frac{36n+12}{7}, n \equiv 2(\text{mod } 28) \\ \frac{36n-4}{7}, n \equiv 4(\text{mod } 28) \\ \frac{36n+1}{7}, n \equiv 6(\text{mod } 28) \\ \frac{36n+4}{7}, n \equiv 10(\text{mod } 28) \\ \frac{36n-12}{7}, n \equiv 12(\text{mod } 28) \end{cases}, e_n(u_2) = \begin{cases} \frac{36n+14}{7}, n \equiv 14(\text{mod } 28) \\ \frac{36n-16}{7}, n \equiv 16(\text{mod } 28) \\ \frac{36n+24}{7}, n \equiv 18(\text{mod } 28) \\ \frac{36n-27}{7}, n \equiv 20(\text{mod } 28) \\ \frac{36n+27}{7}, n \equiv 22(\text{mod } 28) \\ \frac{36n-24}{7}, n \equiv 24(\text{mod } 28) \\ \frac{36n+16}{7}, n \equiv 26(\text{mod } 28) \end{cases}$$

krq	Plane group	a	b	$\gamma, ^\circ$	
	$p6mm$	4.7321	4.7321	120	
	Vertex	CN	x	y	
	u_1	4	0.1220	0.2440	
	u_2	4	0.1220	0.4553	
Growth polygon	Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
	0	1/5	0	0	5
	1	1/5	1/5	60	5
	2	0	1/5	120	5
	3	-1/5	0	180	5
	4	-1/5	-1/5	240	5
	5	0	-1/5	300	5

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k										$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	
0	0	1	1	3	3	3	3	2	1	1	0
1	0	0	2	4	2	4	3	2	0	1	0
2	0	1	1	3	3	3	3	2	1	1	0
3	1	1	2	2	3	3	2	2	1	1	0
4	0	0	1	2	2	4	4	2	2	1	0
5	1	1	2	2	3	3	2	2	1	1	0
6	0	1	1	3	3	3	3	2	1	1	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$					$\delta_{i,k}^{(2)}$				
	k					k				
	0	1	2	3	4	0	1	2	3	4
0	1	0	0	0	0	0	0	0	0	0
1	1	1	1	1	0	0	0	0	0	0
2	1	1	1	1	0	0	0	0	0	0
3	1	0	0	0	0	0	0	0	0	0
4	1	0	1	1	1	0	0	0	0	0
5	1	0	1	1	1	0	0	0	0	0

For $n \geq 1$

$$e_n(u_1) = 2r_2(n-1;5,5) + 4r_2(n-2;5,5) + 9r_2(n-3;8,5) + 16r_2(n-4;5,5) + 16r_2(n-5;5,5) + 20r_2(n-6;5,5) + 17r_2(n-7;5,5) + 12r_2(n-8;5,5) + 6r_2(n-9;5,5) + 6r_2(n-10;5,5) + 6r_1(n;5) + 2r_1(n-1;5) + 4r_1(n-2;5) + 4r_1(n-3;5) + 2r_1(n-4;5).$$

$$\text{For } n \geq 1 \quad e_n(u_1) = \begin{cases} \frac{22n}{5}, n \equiv 0(\text{mod } 5) \\ \frac{22n-2}{5}, n \equiv 1(\text{mod } 5), \\ \frac{21n-2}{5}, n \equiv 2(\text{mod } 5) \end{cases}, \quad e_n(u_1) = \begin{cases} \frac{21n+2}{5}, n \equiv 3(\text{mod } 5) \\ \frac{22n+2}{5}, n \equiv 4(\text{mod } 5) \end{cases}.$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k										$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	
0	0	0	1	2	2	4	4	2	2	1	3
1	1	1	2	2	3	3	2	2	1	1	2
2	0	0	1	2	2	4	4	2	2	1	2
3	0	0	1	2	2	4	4	2	2	1	4
4	0	0	1	2	2	4	4	2	2	1	1
5	1	1	2	2	3	3	2	2	1	1	1
6	0	0	1	2	2	4	4	2	2	1	3

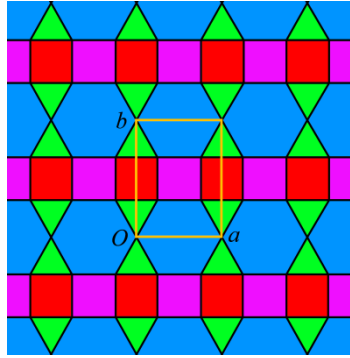
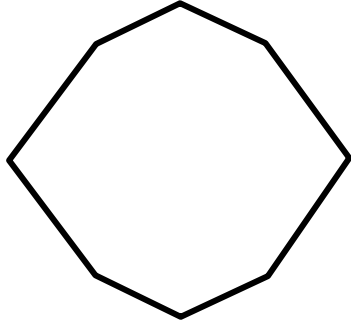
Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$												$\delta_{i,k}^{(2)}$											
	k												k											
	0	1	2	3	4	5	6	7	8	9	10	11	0	1	2	3	4	5	6	7	8	9	10	11
0	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	1	1	1	1	0	0	0	0
1	1	0	0	0	1	1	1	1	0	0	0	0	1	1	2	2	1	1	1	0	0	0	0	0
2	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	1	1	2	3	2	2	2	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0
4	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
5	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

For $n \geq 8$

$$e_n(u_2) = r_2(n-2;5,5) + 2r_2(n-3;8,5) + 4r_2(n-4;5,5) + 7r_2(n-5;5,5) + 10r_2(n-6;5,5) + 15r_2(n-7;5,5) + 17r_2(n-8;5,5) + 16r_2(n-9;5,5) + 15r_2(n-10;5,5) + 11r_2(n-11;5,5) + 6r_2(n-12;5,5) + 3r_2(n-13;5,5) + r_2(n-14;5,5) + 14r_1(n;5) + 16r_1(n-1;5) + 14r_1(n-2;5) + 13r_1(n-3;5) + 15r_1(n-4;5).$$

$$\text{For } n \geq 8 \quad e_n(u_2) = \begin{cases} \frac{22n-5}{5}, n \equiv 0(\text{mod } 5) \\ \frac{21n+4}{5}, n \equiv 1(\text{mod } 5), \\ \frac{22n+1}{5}, n \equiv 2(\text{mod } 5) \end{cases}, \quad e_n(u_2) = \begin{cases} \frac{22n-6}{5}, n \equiv 3(\text{mod } 5) \\ \frac{21n+6}{5}, n \equiv 4(\text{mod } 5) \end{cases}.$$

krr	Plane group	a	b	$\gamma, ^\circ$	
	$p2mm$	2.0000	2.7321	90	
	Vertex	CN	x	y	
	u_1	4	0	0.	
	u_2	4	0.25	0.3170	
Growth polygon	Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
	0	1/2	0	0	2
	1	1/4	1/4	53.795	4
	2	0	1/3	90	3
	3	-1/4	1/4	126.205	4
	4	-1/2	0	180	2
	5	-1/4	-1/4	233.795	4
	6	0	-1/3	270	3
	7	1/4	-1/4	306.205	4

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k							$d(x, x_i)$
	1	2	3	4	5	6	7	
0	0	1	1	1	1	1	0	2
1	1	1	0	0	1	1	1	0
2	1	1	0	0	1	1	1	0
3	0	1	1	1	1	1	0	2
4	0	1	1	1	1	1	0	2
5	1	1	0	0	1	1	1	0
6	1	1	0	0	1	1	1	0
7	0	1	1	1	1	1	0	2

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$				$\delta_{i,k}^{(2)}$			
	k				k			
	0	1	2	3	0	1	2	3
0	1	2	0	0	1	1	0	0
1	1	0	0	1	1	0	0	0
2	1	0	0	0	0	0	0	0
3	1	1	0	0	1	0	0	0
4	1	2	0	0	1	1	0	0

5	1	0	0	1	1	0	0	0
6	1	0	0	0	0	0	0	0
7	1	1	0	0	1	0	0	0

For $n \geq 3$

$$e_n(u_1) = 4r_2(n-4; 2, 4) + 4r_2(n-5; 2, 4) + 4r_2(n-6; 2, 4) + 4r_2(n-7; 2, 4) + 4r_2(n-8; 2, 4) + \\ + 4r_2(n-1; 3, 4) + 4r_2(n-2; 3, 4) + 4r_2(n-5; 3, 4) + 4r_2(n-6; 3, 4) + 4r_2(n-7; 3, 4) + \\ + 2r_1(n; 3) + 4r_1(n; 2) + 6r_1(n-1; 2) + 4r_1(n; 4) + 4r_1(n-2; 4) + 4r_1(n-3; 4).$$

For $n \geq 3$

$$e_n(u_1) = \begin{cases} \frac{14n-6}{3}, n \equiv 0, 6(\text{mod } 12) \\ \frac{14n-4}{3}, n \equiv 2, 8(\text{mod } 12) \\ \frac{14n-8}{3}, n \equiv 4, 10(\text{mod } 12) \end{cases}, e_n(u_1) = \begin{cases} \frac{11n+7}{3}, n \equiv 1(\text{mod } 12) \\ \frac{11n+3}{3}, n \equiv 3(\text{mod } 12) \\ \frac{11n+11}{3}, n \equiv 5(\text{mod } 12) \end{cases}, e_n(u_1) = \begin{cases} \frac{11n+1}{3}, n \equiv 7(\text{mod } 12) \\ \frac{11n+9}{3}, n \equiv 9(\text{mod } 12) \\ \frac{11n+5}{3}, n \equiv 11(\text{mod } 12) \end{cases}.$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k							$d(x, x_i)$
	1	2	3	4	5	6	7	
0	0	1	2	0	1	1	0	0
1	0	0	0	1	2	1	1	0
2	0	1	1	1	1	0	1	0
3	0	1	1	1	1	1	0	0
4	0	0	2	1	1	1	0	0
5	1	1	1	0	0	1	1	0
6	0	0	1	1	1	1	1	0
7	0	1	1	1	1	1	0	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

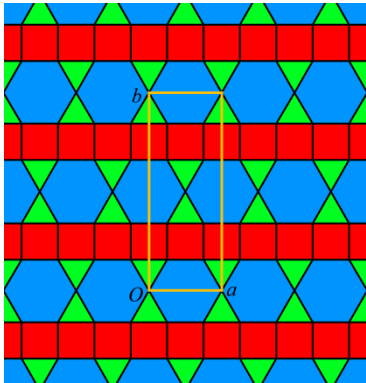
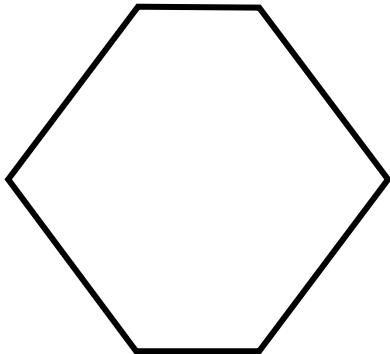
Number of the sector, i	$\delta_{i,k}^{(1)}$			$\delta_{i,k}^{(2)}$		
	k			k		
	0	1	2	0	1	2
0	1	1	0	0	0	0
1	1	0	0	0	0	0
2	1	1	0	0	0	0
3	1	0	0	0	0	0
4	1	1	0	0	0	0
5	1	0	0	0	0	0
6	1	0	1	0	0	0
7	1	0	0	0	0	0

For $n \geq 1$

$$e_n(u_2) = 3r_2(n-2; 2, 4) + 6r_2(n-3; 2, 4) + 3r_2(n-4; 2, 4) + 4r_2(n-5; 2, 4) + 4r_2(n-6; 2, 4) + r_2(n-1; 3, 4) + \\ + 2r_2(n-2; 3, 4) + 3r_2(n-3; 3, 4) + 3r_2(n-4; 3, 4) + 4r_2(n-5; 3, 4) + 3r_2(n-6; 3, 4) + 4r_2(n-7; 3, 4) + \\ + 2r_1(n; 2) + 2r_1(n-1; 2) + 2r_1(n; 3) + r_1(n-1; 3) + r_1(n-2; 3) + 4r_1(n; 4).$$

For $n \geq 1$

$$e_n(u_2) = \begin{cases} \frac{25n}{6}, n \equiv 0, 6(\text{mod } 12) \\ \frac{25n-2}{6}, n \equiv 2, 8(\text{mod } 12) \\ \frac{25n+2}{6}, n \equiv 4, 10(\text{mod } 12) \end{cases}, e_n(u_2) = \begin{cases} \frac{25n-1}{6}, n \equiv 1(\text{mod } 12) \\ \frac{25n+3}{6}, n \equiv 3(\text{mod } 12) \\ \frac{25n-5}{6}, n \equiv 5(\text{mod } 12) \end{cases}, e_n(u_2) = \begin{cases} \frac{25n+5}{6}, n \equiv 7(\text{mod } 12) \\ \frac{25n-3}{6}, n \equiv 9(\text{mod } 12) \\ \frac{25n+1}{6}, n \equiv 11(\text{mod } 12) \end{cases}.$$

krS	Plane group	a	b	$\gamma, ^\circ$	
	$c2mm$	2.0000	5.4642	90.0	
	Vertex	CN	x	y	
	u_1	4	0	0	
	u_2	4	0.25	0.1585	
Growth polygon	Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
	0	1/2	0	0	2
	1	1/6	1/6	69.896	6
	2	-1/6	1/6	110.104	6
	3	-1/2	0	180	2
	4	-1/6	-1/6	249.896	6
	5	1/6	-1/6	290.104	6

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k												$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	11	12	
0	0	1	1	2	2	1	2	1	0	0	0	0	1
1	0	2	0	2	4	1	4	2	2	2	0	1	0
2	0	1	1	2	2	1	2	1	0	0	0	0	1
3	0	1	1	2	2	1	2	1	0	0	0	0	1
4	0	2	0	2	4	1	4	2	2	2	0	1	0
5	0	1	1	2	2	1	2	1	0	0	0	0	1

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$					$\delta_{i,k}^{(2)}$				
	k					k				
	0	1	2	3	4	0	1	2	3	4
0	1	1	1	0	0	1	1	0	0	0
1	1	0	0	1	1	1	0	0	0	0
2	1	0	1	1	0	1	0	0	0	0
3	1	1	1	0	0	1	1	0	0	0
4	1	0	0	1	1	1	0	0	0	0
5	1	0	1	1	0	1	0	0	0	0

For $n \geq 2$

$$e_n(u_1) = 4r_2(n-3; 2, 6) + 4r_2(n-4; 2, 6) + 8r_2(n-5; 2, 6) + 8r_2(n-6; 2, 6) + 4r_2(n-7; 2, 6) + 8r_2(n-8; 2, 6) + \\ + 4r_2(n-9; 2, 6) + 4r_2(n-2; 6, 6) + 4r_2(n-4; 6, 6) + 8r_2(n-5; 6, 6) + 2r_2(n-6; 6, 6) + 8r_2(n-7; 6, 6) + \\ + 4r_2(n-8; 6, 6) + 4r_2(n-9; 6, 6) + 4r_2(n-10; 6, 6) + 2r_2(n-12; 6, 6) + 4r_1(n-1; 2) + 4r_1(n-2; 2) + \\ + 2r_1(n-3; 2) + 4r_1(n; 6) + 4r_1(n-1; 6) + 4r_1(n-3; 6) + 4r_1(n-4; 6).$$

$$\text{For } n \geq 2 \quad e_n(u_1) = \begin{cases} 4n-2, n \equiv 0(\text{mod } 6) \\ \frac{14n+4}{3}, n \equiv 1(\text{mod } 6), \\ \frac{14n-4}{3}, n \equiv 2(\text{mod } 6) \end{cases}, \quad e_n(u_1) = \begin{cases} 4n+2, n \equiv 3(\text{mod } 6) \\ \frac{14n-8}{3}, n \equiv 4(\text{mod } 6) \\ \frac{14n+8}{3}, n \equiv 5(\text{mod } 6) \end{cases}$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k												$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	11	12	
0	0	1	1	2	2	1	2	1	0	0	0	0	0
1	0	2	0	2	4	1	4	2	2	2	0	1	2
2	0	1	1	2	2	1	2	1	0	0	0	0	1
3	1	1	1	2	2	1	1	1	0	0	0	0	0
4	0	2	0	2	4	1	4	2	2	2	0	1	4
5	0	1	1	2	2	1	2	1	0	0	0	0	3

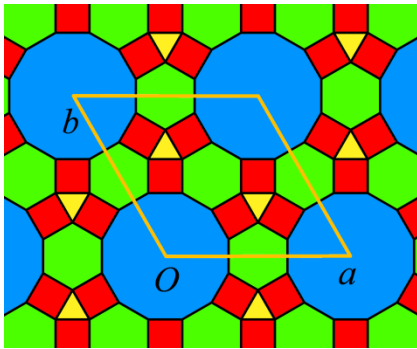
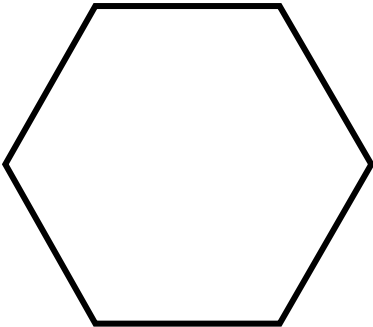
Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$								$\delta_{i,k}^{(2)}$							
	k								k							
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7
0	1	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0
1	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0
2	1	1	1	2	2	1	1	1	1	1	0	1	1	0	0	0
3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	1	1	0	1	1	0	0	0	1	0	1	2	0	1	1	0
5	1	1	1	2	2	1	1	1	1	1	0	1	1	0	0	0

For $n \geq 5$

$$e_n(u_2) = r_2(n-1; 2, 6) + 2r_2(n-2; 2, 6) + 3r_2(n-3; 2, 6) + 5r_2(n-4; 2, 6) + 7r_2(n-5; 2, 6) + 5r_2(n-6; 2, 6) + \\ + 6r_2(n-7; 2, 6) + 6r_2(n-8; 2, 6) + 2r_2(n-9; 2, 6) + 2r_2(n-10; 2, 6) + r_2(n-11; 2, 6) + 2r_2(n-4; 6, 6) + \\ + 4r_2(n-6; 6, 6) + 4r_2(n-7; 6, 6) + 3r_2(n-8; 6, 6) + 8r_2(n-9; 6, 6) + 3r_2(n-10; 6, 6) + 6r_2(n-11; 6, 6) + \\ + 4r_2(n-12; 6, 6) + 2r_2(n-13; 6, 6) + 3r_2(n-14; 6, 6) + r_2(n-16; 6, 6) + 3r_1(n; 2) + 3r_1(n-1; 2) + \\ + r_1(n-6; 2) + 7r_1(n; 6) + 6r_1(n-1; 6) + 8r_1(n-2; 6) + 7r_1(n-3; 6) + 6r_1(n-4; 6) + 8r_1(n-5; 6).$$

$$\text{For } n \geq 3 \quad e_n(u_2) = \begin{cases} \frac{14n-3}{3}, n \equiv 0, 3(\text{mod } 6) \\ \frac{13n+2}{3}, n \equiv 1, 4(\text{mod } 6) . \\ \frac{13n+1}{3}, n \equiv 2, 5(\text{mod } 6) \end{cases}$$

krt	Plane group	a	b	$\gamma, ^\circ$	
	$p6mm$	5.4641	5.4641	120	
	Vertex	CN	x	y	
	u_1	4	0.2113	0.6057	
	u_2	3	0.1057	0.3943	
Growth polygon	Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
		x_i	y_i		
	0	1/6	0	0	6
	1	1/6	1/6	60	6
	2		1/6	120	6
	3	-1/6	0	180	6
	4	-1/6	-1/6	240	6
	5	0	-1/6	300	6

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k												$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	11	12	
0	0	2	0	0	2	2	4	2	3	2	0	1	0
1	0	0	1	2	2	2	2	2	2	2	2	1	1
2	1	1	1	3	2	1	1	2	3	1	1	1	3
3	0	0	1	2	2	2	2	2	2	2	2	1	0
4	1	1	1	3	2	1	1	2	3	1	1	1	3
5	1	1	1	3	2	1	1	2	3	1	1	1	2

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$								$\delta_{i,k}^{(2)}$							
	k								k							
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7
0	1	1	0	1	2	1	0	1	1	0	0	0	0	0	0	0
1	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0
2	1	0	0	1	1	1	1	0	1	1	1	1	1	2	1	1
3	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0
4	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0
5	1	0	0	1	1	2	2	1	1	0	0	1	0	0	0	0

For $n \geq 4$

$$e_n(u_1) = 2r_2(n-2; 6, 6) + 2r_2(n-3; 6, 6) + 5r_2(n-4; 6, 6) + 8r_2(n-5; 6, 6) + 11r_2(n-6; 6, 6) + 14r_2(n-7; 6, 6) + 10r_2(n-8; 6, 6) + 10r_2(n-9; 6, 6) + 10r_2(n-10; 6, 6) + 12r_2(n-11; 6, 6) + 11r_2(n-12; 6, 6) + 6r_2(n-13; 6, 6) + 4r_2(n-14; 6, 6) + 2r_2(n-15; 6, 6) + r_2(n-16; 6, 6) + 9r_1(n; 6) + 10r_1(n-1; 6) + 10r_1(n-2; 6) + 9r_1(n-3; 6) + 6r_1(n-4; 6) + 6r_1(n-5; 6).$$

$$\text{For } n \geq 4 \quad e_n(u_1) = \begin{cases} \frac{11n-6}{3}, n \equiv 0(\text{mod } 6) \\ \frac{10n+2}{3}, n \equiv 1(\text{mod } 6), \\ \frac{8n+8}{3}, n \equiv 2(\text{mod } 6) \end{cases} \quad e_n(u_1) = \begin{cases} \frac{7n+6}{3}, n \equiv 3(\text{mod } 6) \\ \frac{8n-2}{3}, n \equiv 4(\text{mod } 6) \\ \frac{10n-8}{3}, n \equiv 5(\text{mod } 6) \end{cases}.$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k												$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	11	12	
0	0	1	1	1	1	1	3	3	3	2	1	1	0
1	0	0	1	2	2	2	2	2	2	2	2	1	2
2	0	0	1	2	2	2	2	2	2	2	2	1	3
3	1	1	1	3	2	1	1	2	3	1	1	1	0
4	0	1	1	1	1	1	3	3	3	2	1	1	3
5	0	1	1	1	1	1	3	3	3	2	1	1	2

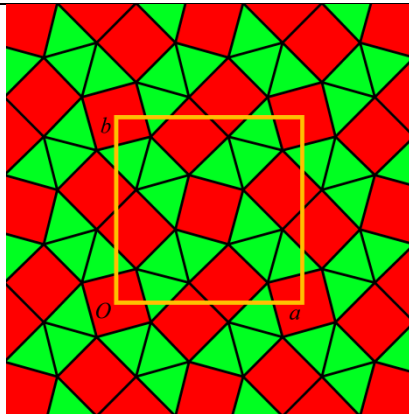
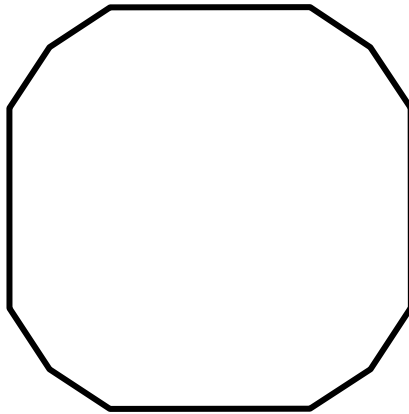
Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$								$\delta_{i,k}^{(2)}$							
	k								k							
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7
0	1	1	0	1	1	1	0	0	1	0	0	0	0	0	0	0
1	1	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0
2	1	1	1	1	1	2	1	1	1	1	1	1	1	2	1	1
3	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0
4	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
5	1	1	1	2	3	3	1	0	1	1	1	1	1	1	0	0

For $n \geq 5$

$$e_n(u_2) = r_2(n-1; 6, 6) + 2r_2(n-2; 6, 6) + 2r_2(n-3; 6, 6) + 5r_2(n-4; 6, 6) + 6r_2(n-5; 6, 6) + 7r_2(n-6; 6, 6) + 10r_2(n-7; 6, 6) + 11r_2(n-8; 6, 6) + 14r_2(n-9; 6, 6) + 13r_2(n-10; 6, 6) + 12r_2(n-11; 6, 6) + 11r_2(n-12; 6, 6) + 7r_2(n-13; 6, 6) + 5r_2(n-14; 6, 6) + 2r_2(n-15; 6, 6) + 10r_1(n; 6) + 9r_1(n-1; 6) + 10r_1(n-2; 6) + 10r_1(n-3; 6) + 7r_1(n-4; 6) + 8r_1(n-5; 6).$$

$$\text{For } n \geq 5 \quad e_n(u_2) = \begin{cases} 3n, n \equiv 1, 4(\text{mod } 6) \\ 3n-1, n \equiv 0, 5(\text{mod } 6) \\ 3n+1, n \equiv 2, 3(\text{mod } 6) \end{cases}.$$

usm	Plane group	a	b	$\gamma, ^\circ$	
	$p4gm$	3.3461	3.3461	90	
	Vertex	CN	x	y	
	u_1	5	0.1057	0.1830	
	u_2	5	0.1057	0.6057	
Growth polygon	Number of the growth polygon vertex i	Vertex fractional coordinates		$\alpha_i, ^\circ$	Length of the ray $d(\Gamma_i)$
		x_i	y_i		
	0	1/4	1/8	26.565	8
	1	1/5	1/5	45	5
	2	1/8	1/4	63.435	8
	3	-1/8	1/4	116.565	8
	4	-1/5	1/5	135	5
	5	-1/4	1/8	153.435	8
	6	-1/4	-1/8	206.565	8
	7	-1/5	-1/5	225	5
	8	-1/8	-1/4	243.435	8
	9	1/8	-1/4	296.565	8
	10	1/5	-1/5	315	5
	11	1/4	-1/8	333.435	8

Vertex u_1

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k																$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0	0	0	1	1	1	1	2	1	2	1	1	0	1	0	0	0	0
1	0	1	1	1	1	1	1	1	2	1	1	0	1	0	0	0	0
2	0	1	2	3	4	5	5	5	6	5	4	3	2	1	1	1	0
3	0	0	1	1	1	1	2	1	2	1	1	0	1	0	0	0	0
4	0	0	1	1	1	1	2	1	2	1	1	0	1	0	0	0	0
5	1	1	2	3	3	5	5	5	5	5	4	3	3	1	1	1	0
6	0	1	1	1	1	2	1	1	1	1	0	1	1	0	0	0	0
7	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
8	1	1	2	3	4	5	6	5	5	5	4	3	2	1	0	1	0
9	0	1	0	1	1	2	1	1	1	1	1	1	1	0	0	0	0
10	0	1	0	1	1	2	1	1	1	1	1	1	1	0	0	0	0
11	1	1	3	3	4	5	5	5	5	5	3	3	2	1	1	1	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$					$\delta_{i,k}^{(1)}$				
	k					k				
	0	1	2	3	4	0	1	2	3	4
0	1	0	0	0	0	0	0	0	0	0
1	1	1	0	0	0	0	0	0	0	0
2	1	0	0	0	0	0	0	0	0	0
3	1	0	0	0	0	0	0	0	0	0
4	1	1	1	0	0	0	0	0	0	0
5	1	0	0	0	0	0	0	0	0	0
6	1	0	0	0	0	0	0	0	0	0
7	1	0	0	0	1	0	0	0	0	0
8	1	0	0	0	0	0	0	0	0	0
9	1	0	0	0	0	0	0	0	0	0
10	1	0	0	1	1	0	0	0	0	0
11	1	0	0	0	0	0	0	0	0	0

For $n \geq 1$

$$\begin{aligned}
e_n(u_1) = & 5r_2(n-2;5,8) + 6r_2(n-3;5,8) + 8r_2(n-4;5,8) + 8r_2(n-5;5,8) + 11r_2(n-6;5,8) + 11r_2(n-7;5,8) + \\
& + 8r_2(n-8;5,8) + 12r_2(n-9;5,8) + 8r_2(n-10;5,8) + 7r_2(n-11;5,8) + 4r_2(n-12;5,8) + 8r_2(n-13;5,8) + \\
& + 3r_2(n-1;8,8) + 4r_2(n-2;8,8) + 9r_2(n-3;8,8) + 12r_2(n-4;8,8) + 15r_2(n-5;8,8) + 20r_2(n-6;8,8) + \\
& + 21r_2(n-7;8,8) + 20r_2(n-8;8,8) + 21r_2(n-9;8,8) + 20r_2(n-10;8,8) + 15r_2(n-11;8,8) + 12r_2(n-12;8,8) + \\
& + 9r_2(n-13;8,8) + 4r_2(n-14;8,8) + 3r_2(n-15;8,8) + 4r_2(n-16;8,8) + 4r_1(n;5) + 2r_1(n-1;5) + r_1(n-2;5) + \\
& + r_1(n-3;5) + 2r_1(n-4;5) + 8r_1(n;8).
\end{aligned}$$

For $n \geq 1$

$$e_n(u_1) = \begin{cases} \frac{27n}{5}, n \equiv 0, 5, 15, 20, 25, 35 \pmod{40} \\ \frac{27n+1}{5}, n \equiv 7, 12, 17, 27, 32, 37 \pmod{40} \\ \frac{27n-1}{5}, n \equiv 3, 8, 13, 23, 28, 33 \pmod{40} \\ \frac{27n+2}{5}, n \equiv 4, 9, 19, 24, 29, 39 \pmod{40} \\ \frac{27n-2}{5}, n \equiv 1, 11, 16, 21, 31, 36 \pmod{40} \end{cases}, \quad e_n(u_1) = \begin{cases} \frac{27n+3}{5}, n \equiv 6 \pmod{40} \\ \frac{27n-3}{5}, n \equiv 34 \pmod{40} \\ \frac{27n+4}{5}, n \equiv 38 \pmod{40} \\ \frac{27n-4}{5}, n \equiv 2 \pmod{40} \\ \frac{27n+5}{5}, n \equiv 30 \pmod{40} \end{cases}, \quad e_n(u_1) = \begin{cases} \frac{27n-5}{5}, n \equiv 10 \pmod{40} \\ \frac{27n+6}{5}, n \equiv 22 \pmod{40} \\ \frac{27n-6}{5}, n \equiv 18 \pmod{40} \\ \frac{27n+7}{5}, n \equiv 14 \pmod{40} \\ \frac{27n-7}{5}, n \equiv 26 \pmod{40} \end{cases}$$

Vertex u_2

Tab. 1: Values of $\sigma_{i,k}$ and $d(x, x_i)$

Number of the sector, i	k																$d(x, x_i)$
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
2	1	1	2	3	4	5	6	5	5	5	4	3	2	1	0	1	0
3	0	1	1	0	1	1	1	1	2	1	1	1	1	0	0	0	0
4	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
5	0	1	2	3	4	5	5	5	6	5	4	3	2	1	1	1	0
6	0	1	1	1	1	1	1	1	2	1	1	0	1	0	0	0	0
7	0	1	1	1	1	1	1	1	2	1	1	0	1	0	0	0	0

8	0	1	2	3	4	5	5	5	6	5	4	3	2	1	1	1	0
9	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
10	0	1	1	0	1	1	1	1	2	1	1	1	1	0	0	0	0
11	1	1	2	3	4	5	6	5	5	5	4	3	2	1	0	1	0

Tab. 2: Values of $\delta_{i,k}^{(1)}$ and $\delta_{i,k}^{(2)}$.

Number of the sector, i	$\delta_{i,k}^{(1)}$					$\delta_{i,k}^{(2)}$				
	k					k				
	0	1	2	3	4	0	1	2	3	4
0	1	0	0	0	0	0	0	0	0	0
1	1	0	0	0	1	0	0	0	0	0
2	1	0	0	0	0	0	0	0	0	0
3	1	0	0	0	0	0	0	0	0	0
4	1	1	0	0	1	0	0	0	0	0
5	1	0	0	0	0	0	0	0	0	0
6	1	0	0	0	0	0	0	0	0	0
7	1	1	0	0	0	0	0	0	0	0
8	1	0	0	0	0	0	0	0	0	0
9	1	0	0	0	0	0	0	0	0	0
10	1	1	0	0	1	0	0	0	0	0
11	1	0	0	0	0	0	0	0	0	0

For $n \geq 1$

$$\begin{aligned}
e_n(u_2) = & 8r_2(n-2;5,8) + 8r_2(n-3;5,8) + 6r_2(n-4;5,8) + 8r_2(n-5;5,8) + 8r_2(n-6;5,8) + 8r_2(n-7;5,8) + \\
& + 8r_2(n-8;5,8) + 12r_2(n-9;5,8) + 8r_2(n-10;5,8) + 8r_2(n-11;5,8) + 6r_2(n-12;5,8) + 8r_2(n-13;8,5) + \\
& + 2r_2(n-1;8,8) + 4r_2(n-2;8,8) + 8r_2(n-3;8,8) + 12r_2(n-4;8,8) + 16r_2(n-5;8,8) + 20r_2(n-6;8,8) + \\
& + 22r_2(n-7;8,8) + 20r_2(n-8;8,8) + 22r_2(n-9;8,8) + 20r_2(n-10;8,8) + 16r_2(n-11;8,8) + \\
& + 12r_2(n-12;8,8) + 8r_2(n-13;8,8) + 4r_2(n-14;8,8) + 2r_2(n-15;8,8) + 4r_2(n-16;8,8) + \\
& + 4r_1(n;5) + 3r_1(n-1;5) + 3r_1(n-4;5) + 8r_1(n;8).
\end{aligned}$$

For $n \geq 1$

$$e_n(u_2) = \begin{cases} \frac{27n}{5}, n \equiv 0, 20(\text{mod } 40) \\ \frac{27n+1}{5}, n \equiv 7, 37(\text{mod } 40) \\ \frac{27n-1}{5}, n \equiv 3, 33(\text{mod } 40) \\ \frac{27n+2}{5}, n \equiv 29, 39(\text{mod } 40) \\ \frac{27n-2}{5}, n \equiv 1, 11(\text{mod } 40) \\ \frac{27n+3}{5}, n \equiv 16, 36(\text{mod } 40) \\ \frac{27n-3}{5}, n \equiv 4, 24(\text{mod } 40) \\ \frac{27n+4}{5}, n \equiv 8, 28(\text{mod } 40) \\ \frac{27n-4}{5}, n \equiv 12, 32(\text{mod } 40) \end{cases}, e_n(u_2) = \begin{cases} \frac{27n+5}{5}, n \equiv 5, 15(\text{mod } 40) \\ \frac{27n-5}{5}, n \equiv 25, 35(\text{mod } 40) \\ \frac{27n+9}{5}, n \equiv 13, 23(\text{mod } 40) \\ \frac{27n-6}{5}, n \equiv 38(\text{mod } 40) \\ \frac{27n+7}{5}, n \equiv 34(\text{mod } 40) \\ \frac{27n-9}{5}, n \equiv 17, 27(\text{mod } 40) \\ \frac{27n+8}{5}, n \equiv 21, 31(\text{mod } 40) \\ \frac{27n-8}{5}, n \equiv 9, 19(\text{mod } 40) \end{cases}, e_n(u_2) = \begin{cases} \frac{27n+6}{5}, n \equiv 2(\text{mod } 40) \\ \frac{27n-7}{5}, n \equiv 6(\text{mod } 40) \\ \frac{27n+10}{5}, n \equiv 10(\text{mod } 40) \\ \frac{27n-10}{5}, n \equiv 30(\text{mod } 40) \\ \frac{27n+13}{5}, n \equiv 26(\text{mod } 40) \\ \frac{27n-13}{5}, n \equiv 14(\text{mod } 40) \\ \frac{27n+14}{5}, n \equiv 18(\text{mod } 40) \\ \frac{27n-14}{5}, n \equiv 22(\text{mod } 40) \end{cases}.$$