

№	Решение с помощью ЭТ	Решение на PascalABC.NET	Решение на языке Python	Ответ																																																																																																																																
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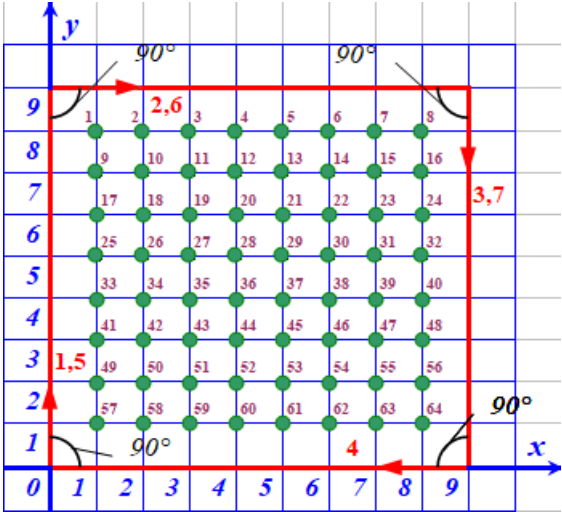
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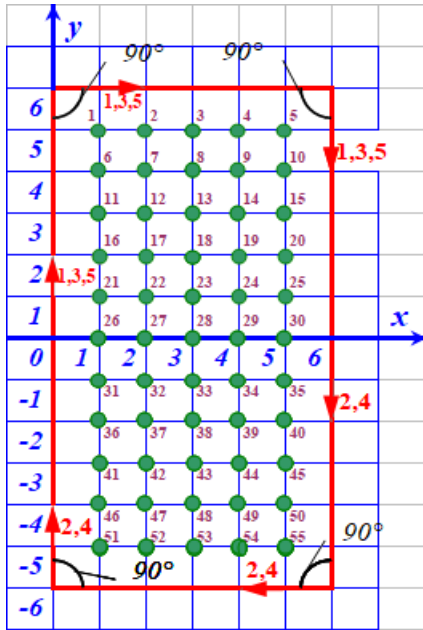
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O																																																																																																																																																																																									
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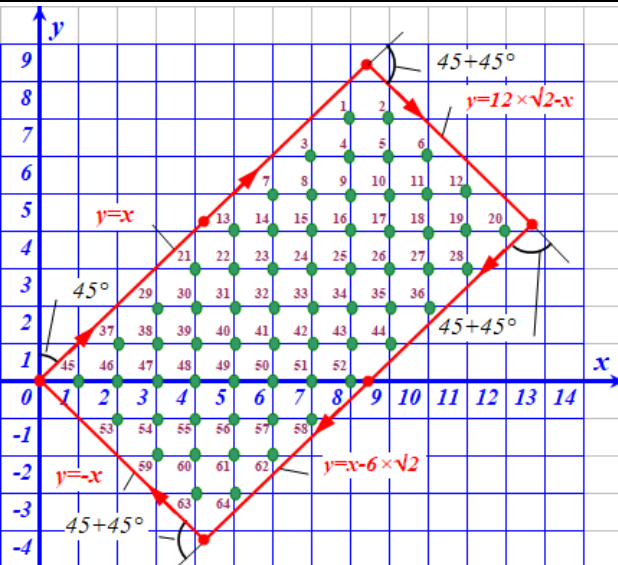
№	Получая (рисуя) фигуры	Решение на <i>PascalABC.NET</i>	<i>PascalABC.NET</i> ( $v \geq 3.8$ )	Решение на языке <i>Python</i>	Ответ
31.	<p>Записываем уравнения линий сторон получаемой геометрической фигуры: <math>x = 0</math>; <math>y = 9</math>; <math>x = 9</math>; <math>y = 0</math></p> 	<pre> var x,y,n:integer; begin for x:=0 to 10 do for y:=0 to 10 do if (y&gt;0) and (y&lt;9) and (x&gt;0) and (x&lt;9) then n:=n+1; writeln(n); end.         </pre>	<pre> uses GraphWPF; function up(x,y,x0,y0,a:real): boolean:=y&lt;(y0+(x-x0)*tan(a/180*pi)); function low(x,y,x0,y0,a:real): boolean:=y&gt;(y0+(x-x0)*tan(a/180*pi)); var a:array[1..4] of integer:= (90,0,- 90,180); p:array of point; i,x,y,k:integer; d:integer:= 9; begin setlength(p,5); SetMathematicCoords(-3, 14, -2); p[0].x:= 0; p[0].y:= 0; for i:=1 to 4 do begin p[i].x:= p[i-1].x+d*cos(a[i]/180*pi); p[i].y:= p[i-1].y+d*sin(a[i]/180*pi); end; Polyline(p,rgb(0,0,255)); for x:= -1 to 10 do for y:= -1 to 10 do if (x&gt;p[0].x) and (x&lt;p[2].x) and up(x,y,p[2].x,p[2].y,a[2]) and low(x,y,p[4].x,p[4].y,a[4]) then begin Circle(x,y,0.05,rgb(255,0,0)); k:=k+1; end; writeln(k); end.         </pre>	<pre> n = 0 for x in range(11): for y in range(11): if y&gt;0 and y&lt;9\ and x&gt;0 and x&lt;9: n += 1 print(n)         </pre>	64

№	Получая (рисуя) фигуры	Решение на <i>PascalABC.NET</i>	<i>PascalABC.NET</i> (v >=3.8)	Решение на языке <i>Python</i>	Ответ
32.	Определяем уравнения линий сторон получаемой геометрической фигуры: $x = 0$ ; $y = 6$ ; $x = 6$ ; $y = -6$	<pre> var x,y,n:integer; begin for x:=0 to 7 do for y:=-7 to 7 do if (y&gt;-6) and (y&lt;6) and (x&gt;0) and (x&lt;6) then n:=n+1; writeln(n); end.                     </pre>	<pre> uses GraphWPF; function up(x,y,x0,y0,a:real): boolean:=y&lt;(y0+(x-x0)*tan(a/180*pi)); function low(x,y,x0,y0,a:real): boolean:=y&gt;(y0+(x-x0)*tan(a/180*pi)); var a:array[1..6] of integer:= (90,0,-90,-90,180,90); p:array of point; i,x,y,k:integer; d:integer:= 6; begin setlength(p,7); SetMathematicCoords(-5, 15, -8); p[0].x:= 0; p[0].y:= 0; for i:=1 to 6 do begin p[i].x:= p[i-1].x+d*cos(a[i]/180*pi); p[i].y:= p[i-1].y+d*sin(a[i]/180*pi); end; Polyline(p,rgb(0,0,255)); for x:= -1 to 7 do for y:= -7 to 7 do if (x&gt;p[0].x) and (x&lt;p[2].x) and up(x,y,p[2].x,p[2].y,a[2]) and low(x,y,p[5].x,p[5].y,a[5]) then begin Circle(x,y,0.05,rgb(255,0,0)); k:=k+1; end; writeln(k); end.                     </pre>	<pre> n = 0 for x in range(8): for y in range(-7,8): if y&gt;-6 and y&lt;6\ and x&gt;0 and x&lt;6: n += 1 print(n)                     </pre>	55

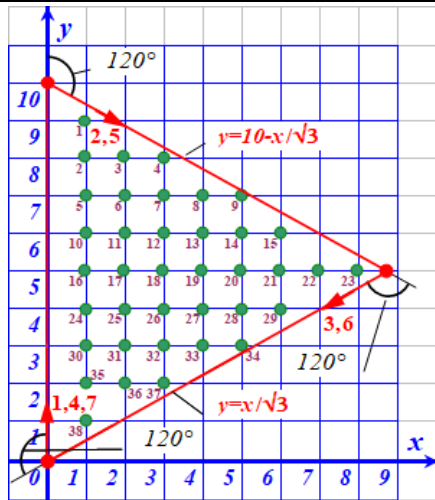




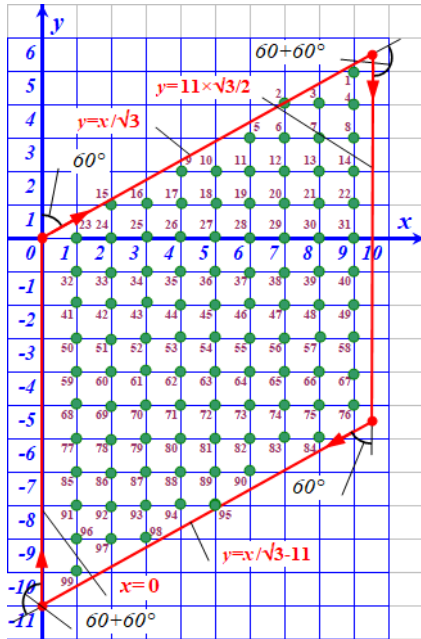
№	Получая (рисуя) фигуры	Решение на <i>PascalABC.NET</i>	<i>PascalABC.NET</i> (v >=3.8)	Решение на языке <i>Python</i>	Ответ
33.	Определяем уравнения линий сторон получаемой геометрической фигуры: $y = x$ ; $y = 9\sqrt{2} - x$ ; $y = x - 9\sqrt{2}$ ; $y = -x$	<pre> var x,y,n:integer; begin for x:=0 to 13 do for y:=-7 to 7 do if (abs(y)&lt;x) and (abs(y)&lt;(9* sqrt(2)-x)) then n:=n+1; writeln(n); end.</pre>	<pre> uses GraphWPF; function up(x,y,x0,y0,a:real): boolean:=y&lt;(y0+(x-x0)*tan(a/180*pi)); function low(x,y,x0,y0,a:real): boolean:=y&gt;(y0+(x-x0)*tan(a/180*pi)); var a:array[1..4] of integer:= (45,-45,-135,135); p:array of point; i,x,y,k:integer; d:integer:= 9; begin setlength(p,5); SetMathematicCoords(-5, 15, -8); p[0].x:= 0; p[0].y:= 0; for i:=1 to 4 do begin p[i].x:= p[i-1].x+d*cos(a[i]/180*pi); p[i].y:= p[i-1].y+d*sin(a[i]/180*pi); end; Polyline(p,rgb(0,0,255)); for x:= -1 to 14 do for y:= -7 to 7 do if up(x,y,p[1].x,p[1].y,a[1]) and up(x,y,p[2].x,p[2].y,a[2]) and low(x,y,p[3].x,p[3].y,a[3]) and low(x,y,p[4].x,p[4].y,a[4]) then begin Circle(x,y,0.05,rgb(255,0,0)); k:=k+1; end; writeln(k); end.</pre>	<pre> n = 0 for x in range(13): for y in range(-7,8): if abs(y)&lt;x and\ abs(y)&lt;9*2**0.5-x: n += 1 print(n)</pre>	72

№	Получая (рисуя) фигуры	Решение на <i>PascalABC.NET</i>	<i>PascalABC.NET</i> (v >=3.8)	Решение на языке <i>Python</i>	Ответ
34.	<p style="text-align: center;">Определяем уравнения линий сторон получаемой геометрической фигуры: <math>y = x</math>; <math>y = 12\sqrt{2} - x</math>; <math>y = x - 6\sqrt{2}</math>; <math>y = -x</math></p> 	<pre> var x,y,n:integer; begin for x:=0 to 13 do for y:=-5 to 9 do if (y&lt;x) and (y&gt;-x) and (y&lt;(12*sqrt(2)-x)) and (y&gt;(x-6*sqrt(2))) then n:=n+1; writeln(n); end.                     </pre>	<pre> uses GraphWPF; function up(x,y,x0,y0,a:real): boolean:=y&lt;(y0+(x-x0)*tan(a/180*pi)); function low(x,y,x0,y0,a:real): boolean:=y&gt;(y0+(x-x0)*tan(a/180*pi)); var a: array[1..6] of integer:= (45,45,-45,-135,-135,135); p: array of point; i,x,y,k: integer; d: integer:= 6; begin setlength(p,7); SetMathematicCoords(-3, 17, -5); p[0].x:= 0; p[0].y:= 0; for i:=1 to 6 do begin p[i].x:= p[i-1].x+d*cos(a[i]/180*pi); p[i].y:= p[i-1].y+d*sin(a[i]/180*pi); end; Polyline(p,rgb(0,0,255)); for x:= -1 to 14 do for y:= -5 to 10 do if up(x,y,p[1].x,p[1].y,a[1]) and up(x,y,p[2].x,p[2].y,a[2]) and up(x,y,p[3].x,p[3].y,a[3]) and low(x,y,p[4].x,p[4].y,a[4]) and low(x,y,p[5].x,p[5].y,a[5]) and low(x,y,p[6].x,p[6].y,a[6]) then begin Circle(x,y,0.05,rgb(255,0,0)); k:=k+1; end; writeln(k); end.                     </pre>	<pre> n = 0 for x in range(13): for y in range(-5,10): if y&lt;x and y&gt;-x \ and y&lt;12*2**0.5-x\ and y&gt;x-6*2**0.5: n += 1 print(n)                     </pre>	64

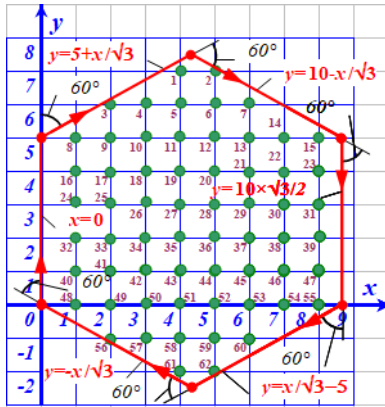
№	Получая (рисуя) фигуры	Решение на <i>PascalABC.NET</i>	<i>PascalABC.NET</i> ( $v \geq 3.8$ )	Решение на языке <i>Python</i>	Ответ
35.	Определяем уравнения линий сторон получаемой геометрической фигуры: $x = 0$ ; $y = 10 - x/\sqrt{3}$ ; $y = x/\sqrt{3}$	<pre> var x,y,n:integer; begin for x:=0 to 9 do for y:=0 to 10 do if (x&gt;0) and (y&lt;(10-x/sqrt(3))) and (y&gt;x/sqrt(3)) then n:=n+1; writeln(n); end.                     </pre>	<pre> uses GraphWPF; function up(x,y,x0,y0,a:real): boolean:=y&lt;(y0+(x-x0)*tan(a/180*pi)); function low(x,y,x0,y0,a:real): boolean:=y&gt;(y0+(x-x0)*tan(a/180*pi)); var a: array[1..3] of integer:= (90,-30,-150); p: array of point; i,x,y,k: integer; d: integer:= 10; begin setlength(p,4); SetMathematicCoords(-5, 14, -2); p[0].x:= 0; p[0].y:= 0; for i:=1 to 3 do begin p[i].x:= p[i-1].x+d*cos(a[i]/180*pi); p[i].y:= p[i-1].y+d*sin(a[i]/180*pi); end; Polyline(p,rgb(0,0,255)); for x:= -1 to 11 do for y:= -1 to 10 do if (x&gt;p[0].x) and up(x,y,p[2].x,p[2].y,a[2]) and low(x,y,p[3].x,p[3].y,a[3]) then begin Circle(x,y,0.05,rgb(255,0,0)); k:=k+1; end; writeln(k); end.                     </pre>	<pre> n = 0 for x in range(10): for y in range(11): if x&gt;0 and \ y&lt;10-x/3**0.5\ and y&gt;x/3**0.5: n += 1 print(n)                     </pre>	38

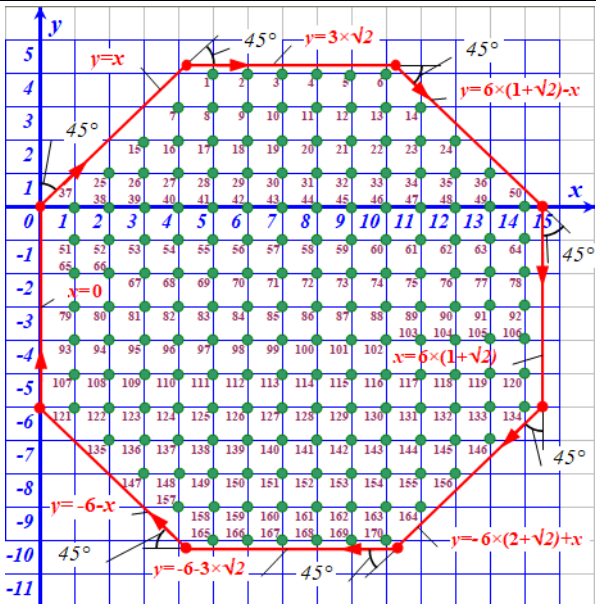


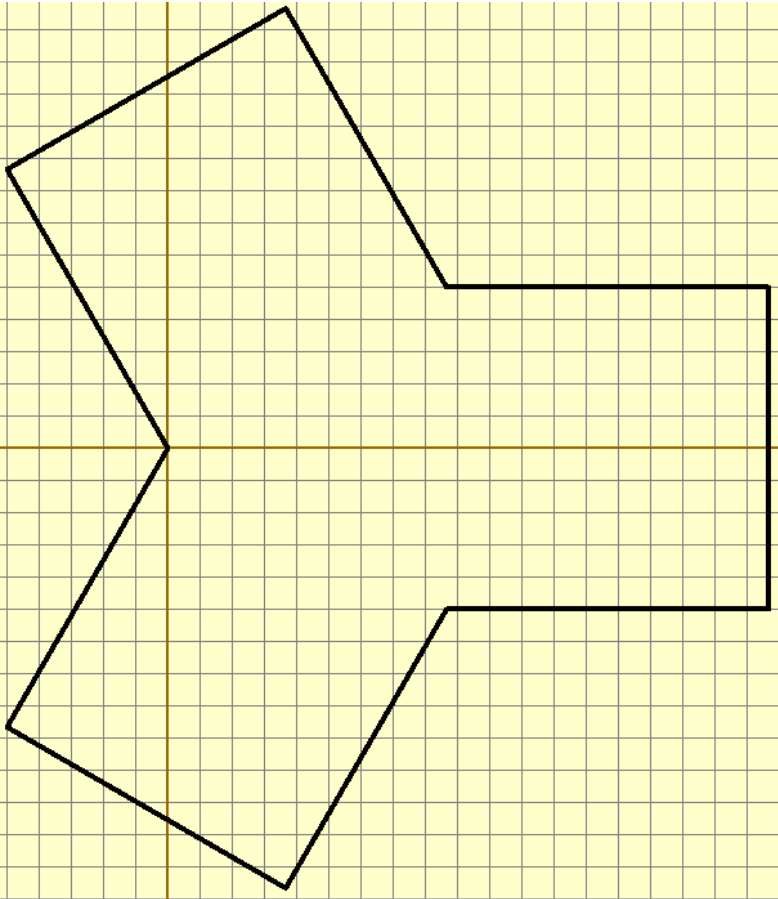
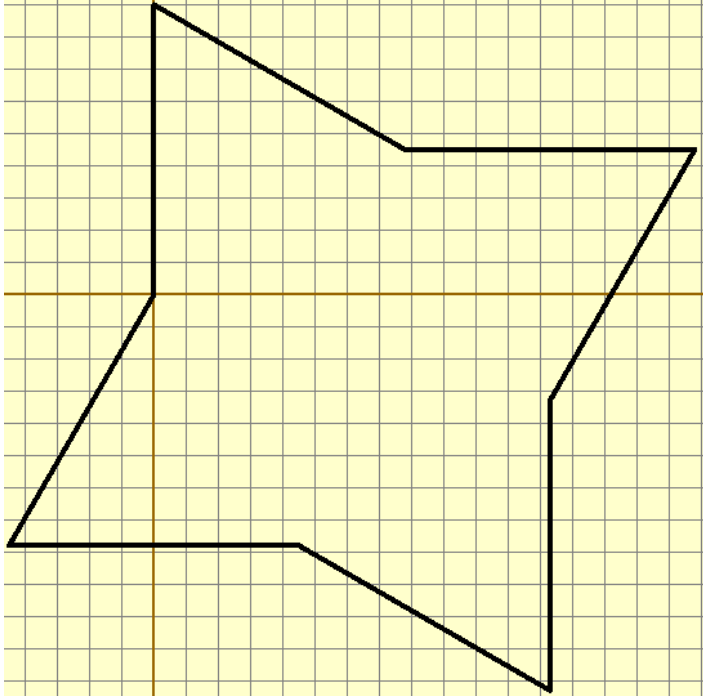
№	Получая (рисуя) фигуры	Решение на <i>PascalABC.NET</i>	<i>PascalABC.NET</i> (v >=3.8)	Решение на языке <i>Python</i>	Ответ
36.	Определяем уравнения линий сторон получаемой геометрической фигуры: $y = x/\sqrt{3}$ ; $y = 11 \times \sqrt{3}/2$ ; $y = x/\sqrt{3} - 11$ ; $x = 0$	<pre> var x,y,n:integer; begin for x:=0 to 10 do for y:=-11 to 6 do if (y&gt;x/sqrt(3)-11) and (y&lt;x/sqrt(3)) and (x&gt;0) and (x&lt;11*sqrt(3)/2) then n:=n+1; writeln(n); end.</pre>	<pre> uses GraphWPF; function up(x,y,x0,y0,a:real): boolean:=y&lt;(y0+(x-x0)*tan(a/180*pi)); function low(x,y,x0,y0,a:real): boolean:=y&gt;(y0+(x-x0)*tan(a/180*pi)); var a: array[1..4] of integer:= (30,-90,-150,90); p: array of point; i,x,y,k: integer; d: integer:= 11; begin setlength(p,5); SetMathematicCoords(-10, 17, -13); p[0].x:= 0; p[0].y:= 0; for i:=1 to 4 do begin p[i].x:= p[i-1].x+d*cos(a[i]/180*pi); p[i].y:= p[i-1].y+d*sin(a[i]/180*pi); end; Polyline(p,rgb(0,0,255)); for x:= -1 to 11 do for y:= -12 to 7 do if up(x,y,p[1].x,p[1].y,a[1]) and low(x,y,p[3].x,p[3].y,a[3]) and (x&lt;p[1].x) and (x&gt;p[3].x) then begin Circle(x,y,0.05,rgb(255,0,0)); k:=k+1; end; writeln(k); end.</pre>	<pre> n = 0 for x in range(10): for y in \ range(-11,7): if y&gt;x/3**0.5-11\ and y&lt;x/3**0.5\ and x&gt;0 and\ x&lt;11*x/3**0.5: n += 1 print(n)</pre>	99

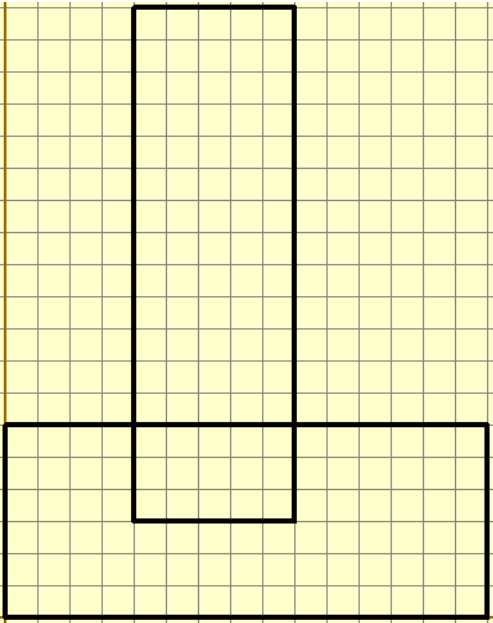
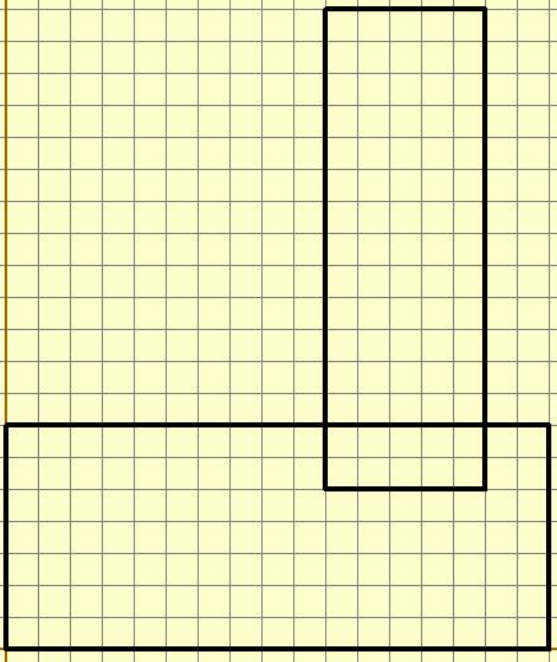


№	Получая (рисуя) фигуры	Решение на <i>PascalABC.NET</i>	<i>PascalABC.NET</i> ( $v \geq 3.8$ )	Решение на языке <i>Python</i>	Ответ
37.	Определяем уравнения линий сторон получаемой геометрической фигуры: $x = 0$ ; $y = 5 + x/\sqrt{3}$ ; $y = 10 - x/\sqrt{3}$ ; $y = 10 \times \sqrt{3}/2$ ; $y = x/\sqrt{3} - 5$ ; $y = -x/\sqrt{3}$	<pre> var x,y,n:integer; begin for x:=0 to 9 do for y:=-3 to 8 do if (y&gt;x/sqrt(3)-5) and (y&gt;-x/sqrt(3)) and (x&gt;0) and (y&lt;5+x/sqrt(3)) and (y&lt;10-x/sqrt(3)) and (x&lt;10*sqrt(3)/2) then n:=n+1; writeln(n); end.                     </pre>	<pre> uses GraphWPF; function up(x,y,x0,y0,a:real): boolean:=y&lt;(y0+(x-x0)*tan(a/180*pi)); function low(x,y,x0,y0,a:real): boolean:=y&gt;(y0+(x-x0)*tan(a/180*pi)); var a: array[1..6] of integer:= (90,30,-30,-90,-150,150); p: array of point; i,x,y,k: integer; d: integer:= 5; begin setlength(p,7); SetMathematicCoords(-3, 17, -5); p[0].x:= 0; p[0].y:= 0; for i:=1 to 6 do begin p[i].x:= p[i-1].x+d*cos(a[i]/180*pi); p[i].y:= p[i-1].y+d*sin(a[i]/180*pi); end; Polyline(p,rgb(0,0,255)); for x:= -3 to 16 do for y:= -5 to 10 do if (x&gt;p[0].x) and (x&lt;p[3].x) and up(x,y,p[2].x,p[2].y,a[2]) and up(x,y,p[3].x,p[3].y,a[3]) and low(x,y,p[5].x,p[5].y,a[5]) and low(x,y,p[6].x,p[6].y,a[6]) then begin Circle(x,y,0.05,rgb(255,0,0)); k:=k+1; end; writeln(k); end.                     </pre>	<pre> n = 0 for x in range(10): for y in\ range(-3,9): if y&gt;x/3**0.5-5\ and y&gt;-x/3**0.5\ and x&gt;0 and\ y&lt;5+x/3**0.5 and\ y&lt;10-x/3**0.5 and\ x&lt;10*3**0.5/2: n += 1 print(n)                     </pre>	62

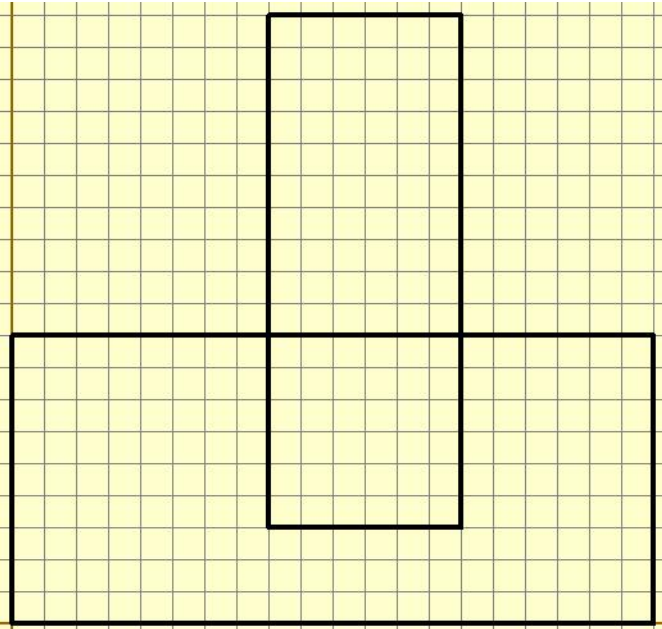
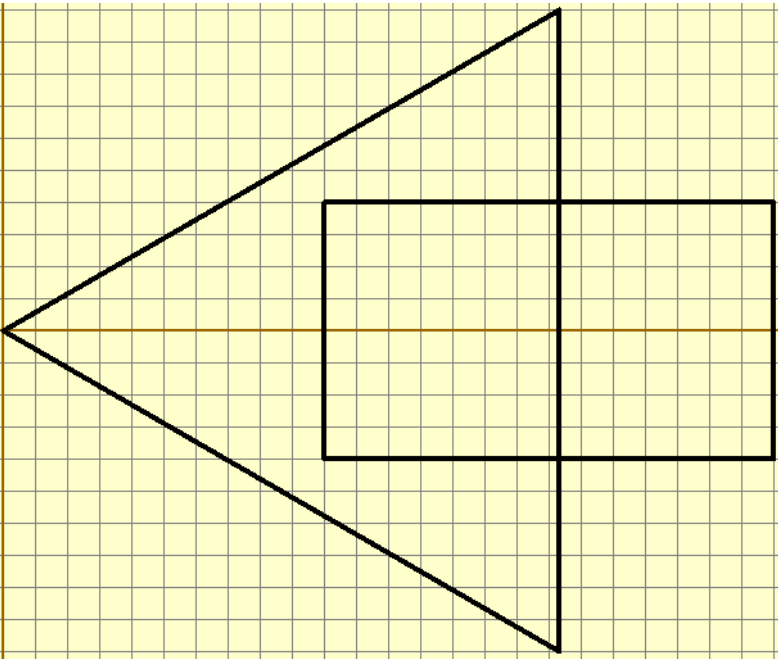


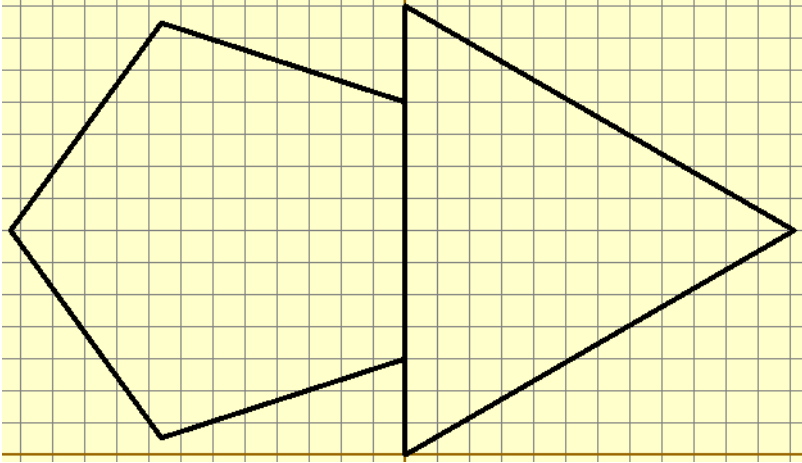
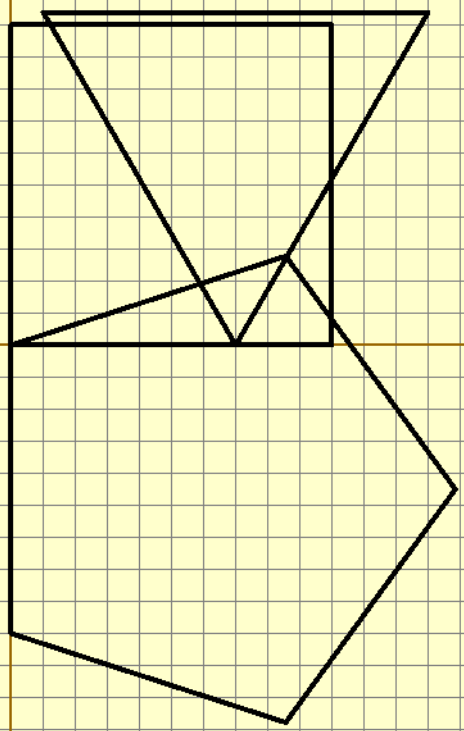
№	Получая (рисуя) фигуры	Решение на <i>PascalABC.NET</i>	<i>PascalABC.NET</i> (v >=3.8)	Решение на языке <i>Python</i>	Ответ
38.	<p>Определяем уравнения линий сторон получаемой геометрической фигуры:</p> $y = x; y = 3\sqrt{2}; y = 6 \times (1 + \sqrt{2}) - x; x = 6 \times (1 + \sqrt{2}); y = -6 \times (2 + \sqrt{2}) + x; y = -(6 + 3\sqrt{2}); y = -6 - x$ 	<pre> var x,y,n:integer; begin for x:=0 to 15 do for y:=-11 to 5 do if (y&lt;x) and (y&lt;3*sqrt(2)) and (y&lt;6*(1+sqrt(2))-x) and (x&lt;6*(1+sqrt(2))) and (y&gt;-6*(2+sqrt(2))+x) and (y&gt;-6-3*sqrt(2)) and (y&gt;-6-x) and (x&gt;0) then n:=n+1; writeln(n); end.                     </pre>	<pre> uses GraphWPF; function up(x,y,x0,y0,a:real): boolean:=y&lt;(y0+(x-x0)*tan(a/180*pi)); function low(x,y,x0,y0,a:real): boolean:=y&gt;(y0+(x-x0)*tan(a/180*pi)); var a: array[1..8] of integer:= (45,0,-45,-90,-135,180,135,90); p: array of point; i,x,y,k: integer; d: integer:= 6; begin setlength(p,9); SetMathematicCoords(-5,20,-12); p[0].x:= 0; p[0].y:= 0; for i:=1 to 8 do begin p[i].x:= p[i-1].x+d*cos(a[i]/180*pi); p[i].y:= p[i-1].y+d*sin(a[i]/180*pi); end; Polyline(p,rgb(0,0,255)); for x:= -1 to 14 do for y:= -11 to 5 do if up(x,y,p[1].x,p[1].y,a[1]) and (y&lt;p[1].y) and (x&lt;p[3].x) and up(x,y,p[3].x,p[3].y,a[3]) and low(x,y,p[5].x,p[5].y,a[5]) and (y&gt;p[5].y) and (x&gt;p[0].x) and low(x,y,p[7].x,p[7].y,a[7]) then begin Circle(x,y,0.05,rgb(255,0,0)); k:=k+1; end; writeln(k); end.                     </pre>	<pre> n = 0 for x in range(15): for y in\ range(-11,5): if (y&lt;x) and\ (y&lt;3*2**0.5) and\ (y&lt;6*(1+2**0.5)-x)\ and (x&lt;6*(1+2**0.5))\ and (y&gt;-6*(2+2**0.5)+x)\ and (y&gt;-6-3*2**0.5)\ and (y&gt;-6-x) and (x&gt;0): n += 1 print(n)                     </pre>	170

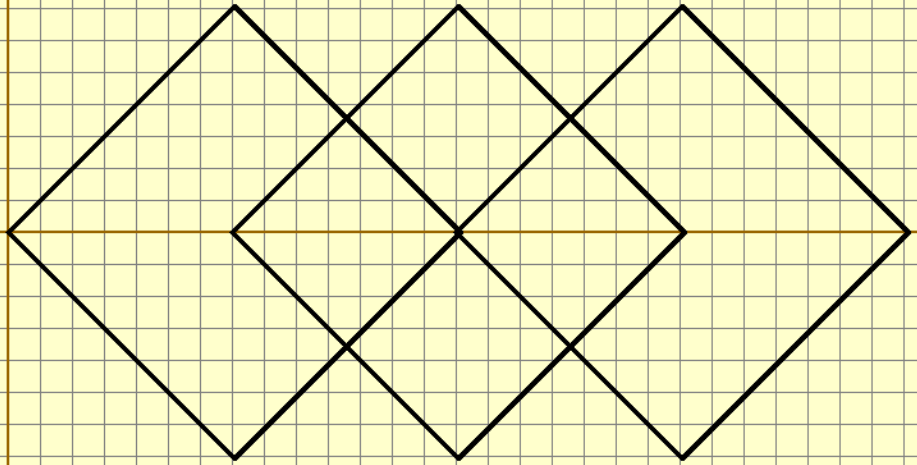
№	Команды Черепахи (Кумир 2.1.0-rc11)	Полученные фигуры	Ответ
39.	влево(30) ОК вперед(10) ОК вправо(90) ОК вперед(10) ОК вправо(90) ОК вперед(10) ОК влево(30) ОК влево(30) ОК вперед(10) ОК вправо(90) ОК вперед(10) ОК вправо(90) ОК вперед(10) ОК влево(30) ОК влево(30) ОК вперед(10) ОК вправо(90) ОК вперед(10) ОК вправо(90) ОК вперед(10) ОК влево(30) ОК		352
40.	вперед(9) ОК вправо(120) ОК вперед(9) ОК влево(30) ОК вперед(9) ОК вправо(120) ОК вперед(9) ОК влево(30) ОК вперед(9) ОК вправо(120) ОК вперед(9) ОК влево(30) ОК вперед(9) ОК вправо(120) ОК вперед(9) ОК влево(30) ОК		216

№	Команды Черепахи (Кумир 2.1.0-rc11)	Полученные фигуры	Ответ
41.	вперед(6) ОК вправо(90) ОК вперед(15) ОК вправо(90) ОК вперед(6) ОК вправо(90) ОК вперед(15) ОК вправо(90) ОК поднять хвост ОК вперед(3) ОК вправо(90) ОК вперед(4) ОК влево(90) ОК опустить хвост ОК вперед(16) ОК вправо(90) ОК вперед(5) ОК вправо(90) ОК вперед(16) ОК вправо(90) ОК вперед(5) ОК вправо(90) ОК		190
42.	вперед(7) ОК вправо(90) ОК вперед(17) ОК вправо(90) ОК вперед(7) ОК вправо(90) ОК вперед(17) ОК вправо(90) ОК поднять хвост ОК вперед(5) ОК вправо(90) ОК вперед(10) ОК влево(90) ОК опустить хвост ОК вперед(15) ОК вправо(90) ОК вперед(5) ОК вправо(90) ОК вперед(15) ОК вправо(90) ОК вперед(5) ОК вправо(90) ОК		222



№	Команды Черепахи (Кумир 2.1.0-rc11)	Полученные фигуры	Ответ
43.	вперед(9) ОК вправо(90) ОК вперед(20) ОК вправо(90) ОК вперед(9) ОК вправо(90) ОК вперед(20) ОК вправо(90) ОК поднять хвост ОК вперед(3) ОК вправо(90) ОК вперед(8) ОК влево(90) ОК опустить хвост ОК вперед(16) ОК вправо(90) ОК вперед(6) ОК вправо(90) ОК вперед(16) ОК вправо(90) ОК вперед(6) ОК вправо(90) ОК		180
44.	вправо(60) ОК вперед(20) ОК вправо(60) ОК вправо(60) ОК вперед(20) ОК вправо(60) ОК вправо(60) ОК вперед(20) ОК вправо(60) ОК поднять хвост ОК вправо(90) ОК вперед(10) ОК влево(90) ОК вперед(4) ОК опустить хвост ОК вправо(90) ОК вперед(14) ОК вправо(90) ОК вперед(8) ОК вправо(90) ОК вперед(14) ОК вправо(90) ОК вперед(8) ОК		196

№	Команды Черепahi (Кумир 2.1.0-rc11)	Полученные фигуры	Ответ
45.	вперед(14) ОК вправо(120) ОК вперед(14) ОК вправо(120) ОК вперед(14) ОК вправо(120) ОК поднять хвост ОК вперед(3) ОК опустить хвост ОК вперед(8) ОК влево(72) ОК вперед(8) ОК влево(72) ОК вперед(8) ОК влево(72) ОК вперед(8) ОК влево(72) ОК вперед(8) ОК влево(72) ОК вперед(8) ОК влево(72) ОК		204
46.	вправо(72) ОК вперед(9) ОК вправо(72) ОК вперед(9) ОК вправо(72) ОК вперед(9) ОК вправо(72) ОК вперед(9) ОК вправо(72) ОК вперед(9) ОК вперед(10) ОК вправо(90) ОК вперед(10) ОК вправо(90) ОК вперед(10) ОК вправо(90) ОК вперед(10) ОК вправо(90) ОК вперед(10) ОК вправо(90) ОК поднять хвост ОК назад(7) ОК опустить хвост ОК вправо(60) ОК вперед(12) ОК вправо(60) ОК вправо(60) ОК вперед(12) ОК вправо(60) ОК вправо(60) ОК вперед(12) ОК вправо(60) ОК		251

№	Команды Черепахи (Кумир 2.1.0-rc11)	Полученные фигуры	Ответ
47.	вправо(45) ОК вперед(10) ОК вправо(45) ОК вправо(45) ОК вперед(10) ОК вправо(45) ОК вправо(45) ОК вперед(10) ОК вправо(45) ОК вправо(45) ОК вперед(10) ОК вправо(45) ОК поднять хвост ОК вправо(90) ОК вперед(7) ОК влево(90) ОК опустить хвост ОК вправо(45) ОК вперед(10) ОК вправо(45) ОК вправо(45) ОК вперед(10) ОК вправо(45) ОК вправо(45) ОК вперед(10) ОК вправо(45) ОК вправо(45) ОК вперед(10) ОК вправо(45) ОК вправо(45) ОК вперед(10) ОК вправо(45) ОК вправо(45) ОК вперед(10) ОК вправо(45) ОК вправо(45) ОК вперед(10) ОК вправо(45) ОК поднять хвост ОК вправо(90) ОК вперед(7) ОК влево(90) ОК опустить хвост ОК вправо(45) ОК вперед(10) ОК вправо(45) ОК вправо(45) ОК вперед(10) ОК вправо(45) ОК вправо(45) ОК вперед(10) ОК вправо(45) ОК вправо(45) ОК вперед(10) ОК вправо(45) ОК вправо(45) ОК вперед(10) ОК вправо(45) ОК		230

