

1) $x^2 + y^2 = 12^2$

2) $x^2 + y^2 \leq 6^2$

3) $x \in (-\infty, -2] \cup [2, +\infty)$; $x^2 + y^2 = 9^2$

4) $x \in [2; 3]$: $y = 9$

$x \in [3; 4]$: $y = 8$

$x \in [4; 5]$: $y = 6$

$x \in [5; 6]$: $y = 7$; $y = 5$

$x \in [6; 7]$: $y = 6$; $y = 3$; $y = 7$

$x \in [7; 8]$: $y = 4$; $y = 1$; $y = -1$; $y = -6$; $y = -8$

$x \in [8; 9]$: $y = 2$; $y = 0$; $y = -2$; $y = -4$; $y = -5$

$x \in [9; 10]$: $y = 0$; $y = -2$; $y = -3$

$x \in [10; 11]$: $y = 1$; $y = -1$

5) $y \in [8; 9]$: $x = 5$

$y \in [7; 8]$: $x = 6$; $x = 8$

$y \in [6; 7]$: $x = 7$

$y \in [5; 6]$: $x = 9$

$y \in [4; 5]$: $x = 8$

$y \in [3; 4]$: $x = 10$

$y \in [2; 3]$: $x = 9$

$y \in [-2; -3]$: $x = 7$

$y \in [-3; -4]$: $x = 8$

$y \in [-4; -5]$: $x = 6$

$y \in [-5; -6]$: $x = 5$; $x = 7$

$y \in [-6; -7]$: $x = 6$

6) $x \in [4; 5]$: $y = x + 2$

$x \in [5; 6]$: $y = x$; $y = x + 1$

$x \in [6; 7]$: $y = x - 1$; $y = x - 3$

$x \in [7; 8]$: $y = x$; $y = x - 1$; $y = x - 4$; $y = x - 6$; $y = x - 8$; $y = x - 13$

$x \in [8; 9]$: $y = x - 3$; $y = x - 4$; $y = x - 7$; $y = x - 9$; $y = x - 12$; $y = x - 14$

$x \in [9; 10]$: $y = x - 6$; $y = x - 7$; $y = x - 11$; $y = x - 13$

$x \in [10; 11]$: $y = x - 10$; $y = x - 12$

7) $x \in [2; 3]$: $y = -x + 11$

$x \in [3; 4]$: $y = -x + 12$

$x \in [5; 6]$: $y = -x + 14$; $y = -x + 13$; $y = -x$; $y = -x - 1$

$x \in [6; 7]$: $y = -x + 2$; $y = -x + 1$; $y = -x - 1$

$x \in [7; 8]$: $y = -x + 6$; $y = -x + 5$; $y = -x + 4$; $y = -x$

$x \in [8; 9]$: $y = -x + 7$

8) $x \in [-2; -3]$: $y = 9$

$x \in [-3; -4]$: $y = 8$

$x \in [-4; -5]$: $y = 6$

$x \in [-5; -6]$: $y = 7$; $y = 5$

$x \in [-6; -7]$: $y = 6$; $y = 3$; $y = -7$

$x \in [-7; -8]$: $y = 4$; $y = 1$; $y = -1$; $y = -6$; $y = -8$

$x \in [-8; -9]$: $y = 2$; $y = 0$; $y = -2$; $y = -4$; $y = -5$

$x \in [-9; -10]$: $y = 0$; $y = -2$; $y = -3$

$x \in [-10; -11]$: $y = 1$; $y = -1$

9). $y \in [8; 9]: x = -5$

$y \in [7; 8]: x = -6; x = -8$

$y \in [6; 7]: x = -7$

$y \in [5; 6]: x = -9$

$y \in [4; 5]: x = -8$

$y \in [3; 4]: x = -10$

$y \in [2; 3]: x = -9$

$y \in [-2; -3]: x = -7$

$y \in [-3; -4]: x = -8$

$y \in [-4; -5]: x = -6$

$y \in [-5; -6]: x = -5; x = -7$

$y \in [-6; -7]: x = -6$

10). $x \in [-2; -3]: y = x + 11$

$x \in [-3; -4]: y = x + 12$

$x \in [-5; -6]: y = x + 14; y = x + 13; y = x; y = x - 1$

$x \in [-6; -7]: y = x + 2; y = x + 1; y = x - 1$

$x \in [-7; -8]: y = x + 6; y = x + 5; y = x + 4; y = x$

$x \in [-8; -9]: y = x + 7$

11). $x \in [-4; -5]: y = -x + 2$

$x \in [-5; -6]: y = -x; y = -x + 1$

$x \in [-6; -7]: y = -x - 1; y = -x - 3$

$x \in [-7; -8]: y = -x; y = -x - 1; y = -x - 4; y = -x - 6; y = -x - 8; y = -x - 13$

$x \in [-8; -9]: y = -x - 3; y = -x - 4; y = -x - 7; y = -x - 9; y = -x - 12; y = -x - 14$

$x \in [-9; -10]: y = -x - 6; y = -x - 7; y = -x - 11; y = -x - 13$

$x \in [-10; -11]: y = -x - 10; y = -x - 12$

12). $y \in [-8; -10]: x = 0$

$x \in [0; 1]: y = x - 9; y = -x - 9$

13). $y \in [-1,5; -0,75]: y = 2(x+1)^2 - 10$

14). $y \in [-8; -9]: y^2 = 2(x-1) - 8,5$

$y \in [-9; -10]: -y^2 = 2(x-2) - 9,5$