

1 На 9 балів

- 1) $y = -\frac{1}{18}x^2 + 12, x \in [-12; 12];$
- 2) $y = -\frac{1}{8}x^2 + 6, x \in [-4; 4];$
- 3) $y = -\frac{1}{8}(x+8)^2 + 6, x \in [-12; -4];$
- 4) $y = -\frac{1}{8}(x-8)^2 + 6, x \in [4; 12];$
- 5) $y = 2(x+3)^2 - 9, x \in [-4; -0,3];$
- 6) $y = 1,5(x+3)^2 - 10, x \in [-4; 0,2];$

2 На 10 балів

- 1) $y = -\frac{1}{16}(x+5)^2 + 2, x \in [-9; -1];$
- 2) $y = -\frac{1}{16}(x-5)^2 + 2, x \in [1; 9];$
- 3) $y = \frac{1}{4}(x+5)^2 - 3, x \in [-9; -1];$
- 4) $y = \frac{1}{4}(x-5)^2 - 3, x \in [1; 9];$
- 5) $y = -(x+7)^2 + 5, x \in [-9; -6];$
- 6) $y = -(x-7)^2 + 5, x \in [6; 9];$
- 7) $y = -0,5x^2 + 1,5, x \in [-1; 1];$

3 На 11 балів

- 1) $y = -\frac{3}{25}x^2 + 6, x \in [-4,6; 5];$
- 2) $y = -\frac{1}{3}x^2 + 2, x \in [-3; 3];$
- 3) $y = 6(x+4)^2 - 7, x \in [-5,1; -3];$
- 4) $y = 6(x-4)^2 - 7, x \in [3; 5,3];$
- 5) $y = (x+6)^2, x \in [-7,7; -4,3];$
- 6) $y = -24(x-5)^2 + 9, x \in [4,5; 5,5];$
- 7) $y = -4(x+7)^2 + 4, x \in [-7,5; -6,5];$
- 8) $y = -4(x+5)^2 + 4, x \in [-5,5; -4,5];$

4 На 11 балів

- 1) $y = -\frac{4}{27}x^2 + 6, x \in [0; 9];$
- 2) $y = \frac{1}{9}(x-7)^2 - 4, x \in [-2; 7];$
- 3) $y = -0,5(x+2)^2 + 8, x \in [-4; 0];$
- 4) $y = -\frac{1}{16}(x+2)^2 + 5, x \in [-6; -2];$
- 5) $y = x+10, x \in [-6; -4];$
- 6) $y = -x+3, x \in [7; 9];$
- 7) $y = 0,5x-1, x \in [-6; 1];$
- 8) $y = 0,5x-2,5, x \in [-5; 2];$

5 На 12 балів

- 1) $y = -\frac{1}{8}x^2 + 5, x \in [-5,2; 4];$
- 2) $y = -\frac{5}{16}(x-8)^2 + 8, x \in [4; 12];$
- 3) $y = -0,5(x+7)^2 + 3, x \in [-9; -5];$
- 4) $y = 0,5(x-10)^2 + 1, x \in [8; 12];$
- 5) $y = (x+3)^2 - 7, x \in [-5; -1];$
- 6) $y = (x-4)^2 - 7, x \in [2; 6];$
- 7) $y = -x-8, x \in [-9; -5];$
- 8) $y = 3(x-7), x \in [6; 8];$
- 9) $y = \frac{4}{9}(x-0,5)^2 - 4, x \in [-1; 2];$
- 10) $y = 0,5(x-11)^2 - 7, x \in [9; 13];$