

Aufgaben:

1. $y(x) = -0,25(x - 2)^2 + 1,25$

2. $y(x) = -4(x - 1,5)^2 + 0,5$

3. $y(x) = 2(x - 3)^2$

4. $y(x) = -\frac{3}{8}(x + 2)^2 - 4$

5. $y(x) = -\frac{1}{3}x^2 + 2$

6. $y(x) = \frac{1}{3}(x - 1)^2 + 2$

7. $y(x) = -2(x + 1)^2 + 3$

8. $y(x) = (x + 0,5)^2 + 4,75$

9. $y(x) = 0,5(x - 1)^2 - 3$

10. $y(x) = -10(x - 2)^2$

11. $y(x) = \frac{1}{2}x^2 - 3$

12. $y(x) = -2(x - 1)^2 + 2$

13. $y(x) = \frac{2}{13}(x + 4)^2 - 3$

14. $y(x) = \frac{1}{2}(x + 2)^2 + 1$

15. $y(x) = 8(x + 2,5)^2 - 2,5$

Lösung:

$y(x) = -0,25x^2 + x + 0,25$

$y(x) = -4x^2 + 12x - 8,5$

$y(x) = 2x^2 - 12x + 18$

$y(x) = -\frac{3}{8}x^2 - 1\frac{1}{2}x - 5\frac{1}{2}$

$y(x) = -\frac{1}{3}x^2 + 2$

$y(x) = \frac{1}{3}x^2 - \frac{2}{3}x + 2\frac{1}{3}$

$y(x) = -2x^2 - 4x + 1$

$y(x) = x^2 + x + 5$

$y(x) = 0,5x^2 - x - 2,5$

$y(x) = -10x^2 + 40x - 40$

$y(x) = \frac{1}{2}x^2 - 3$

$y(x) = -2x^2 + 4x$

$y(x) = \frac{2}{13}x^2 + 1\frac{3}{13}x - \frac{7}{13}$

$y(x) = \frac{1}{2}x^2 + 2x + 3$

$y(x) = 8x^2 + 40x + 47,5$