

Aufgaben:

1. $y(x) = x^2 - 2x - 5$

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

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

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

5. $y(x) = -4x^2 + 2x + \frac{1}{2}$

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

7. $y(x) = \frac{1}{2}x^2 + 4x$

8. $y(x) = -1,25x^2 + 2x + 1,05$

9. $y(x) = 0,01x^2 + 1,5x$

10. $y(x) = -0,4x^2 - 0,6x + 2$

11. $y(x) = -\frac{1}{18}x^2 + \frac{8}{9}x + 2$

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

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

14. $y(x) = -2x^2 - 12x - 18$

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

Lösung:

$y(x) = (x - 1)^2 - 6$

$y(x) = \left(x - \frac{3}{2}\right)^2 - \frac{5}{4}$

$y(x) = 2\left(x + \frac{1}{4}\right)^2 + 2\frac{7}{8}$

$y(x) = -\left(x - 1\frac{1}{2}\right)^2 + 4\frac{1}{4}$

$y(x) = -4\left(x - \frac{1}{4}\right)^2 + \frac{3}{4}$

$y(x) = -3(x - 0)^2 + 2$

$y(x) = \frac{1}{2}(x + 4)^2 - 8$

$y(x) = -1,25(x - 0,8)^2 + 1,85$

$y(x) = 0,01(x + 75)^2 - 56,25$

$y(x) = -0,4(x + 0,75)^2 + 2,225$

$y(x) = -\frac{1}{18}(x - 8)^2 + 5\frac{5}{9}$

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

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

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

$y(x) = -\frac{1}{3}\left(x - \frac{1}{4}\right)^2 - \frac{5}{16}$