

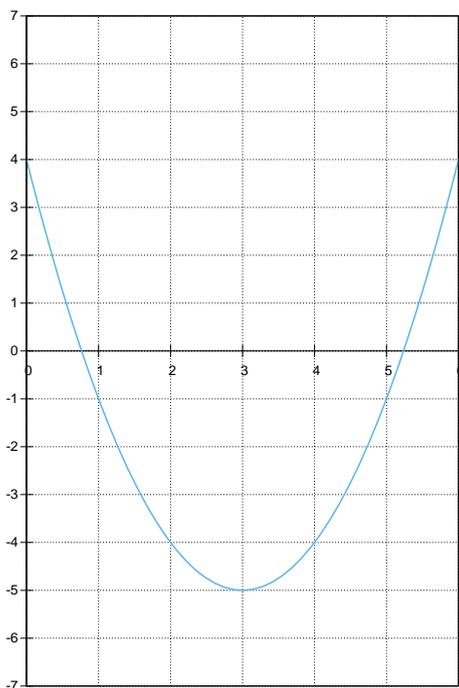
練習問題 16Extra 解答

問題 1 次の2次関数の頂点の座標を求め、グラフを描け。

$$(1) y = x^2 - 6x + 4$$

$$= (x - 3)^2 + 5$$

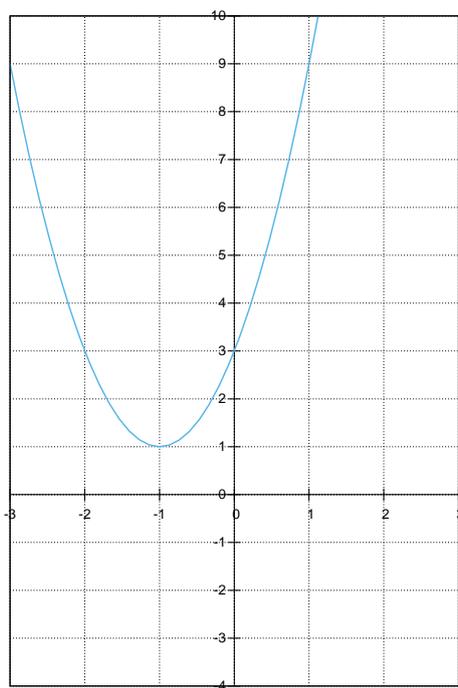
頂点 (3, -5)



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

$$= 2(x + 1)^2 + 1$$

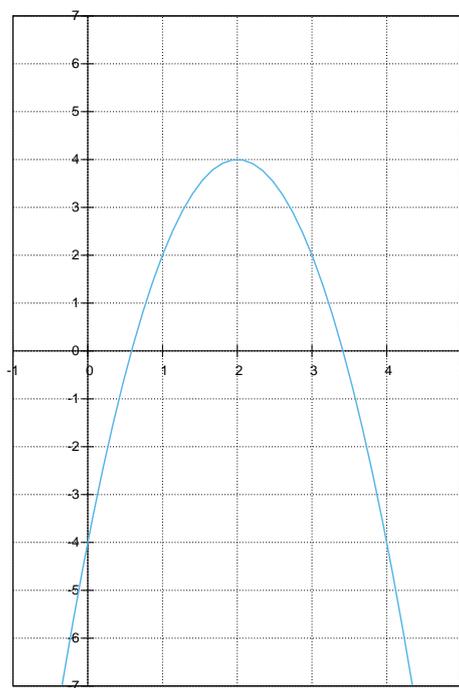
頂点 (-1, 1)



$$(3) y = -2x^2 + 8x - 4$$

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

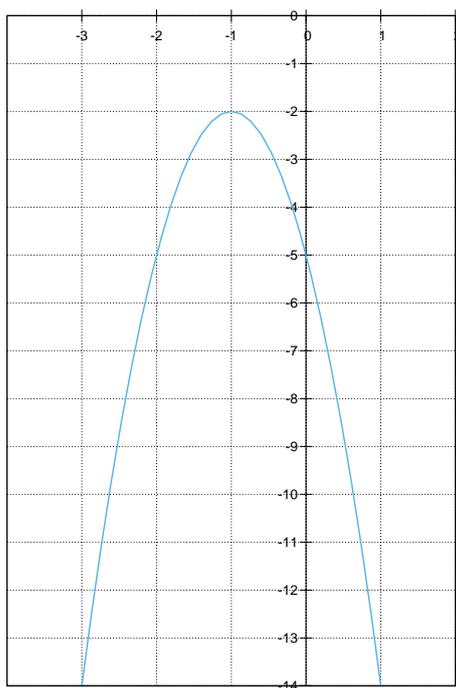
頂点 (2, 4)



$$(4) y = -3x^2 - 6x - 5$$

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

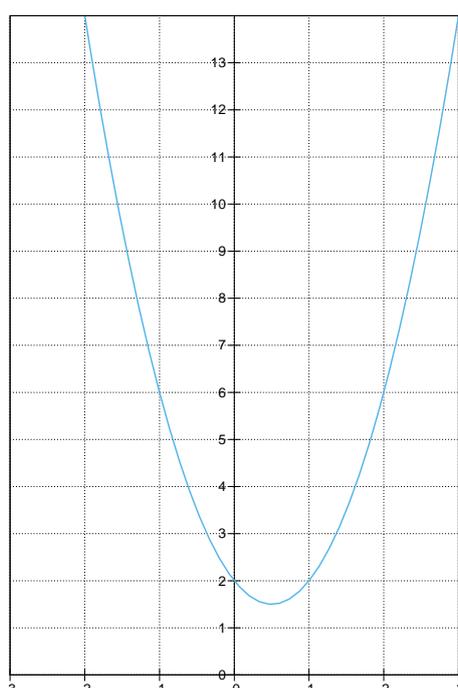
頂点 (-1, -2)



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

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

頂点 $\left(\frac{1}{2}, \frac{3}{2}\right)$



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

$$= -\frac{1}{2}(x + 3)^2 - \frac{9}{2}$$

頂点 $\left(-3, \frac{9}{2}\right)$

