

5.7 Switching Forms

Write each equation in intercept form.

1) $y = -2x^2 + 16x - 30$

2) $y = x^2 + 6x + 5$

3) $y = -2x^2 + 8x - 6$

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

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

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

Write each equation in standard form.

7) $y = 3(x + 2)(x - 4)$

8) $y = -2(x + 7)(x - 1)$

$$9) y = -x(x + 5)$$

$$10) y = (x + 2)^2 - 1$$

$$11) y = 2(x + 1)^2 + 1$$

$$12) y = -2(x + 3)^2 + 4$$

Write each equation in vertex form.

$$13) y = x^2 + 4x + 2$$

$$14) y = -2x^2 - 16x - 36$$

$$15) y = -x^2 - 8x - 17$$

$$16) y = (x - 1)(x + 5)$$

$$17) y = 2(x + 6)(x - 3)$$

$$18) y = -(x - 2)(x - 8)$$