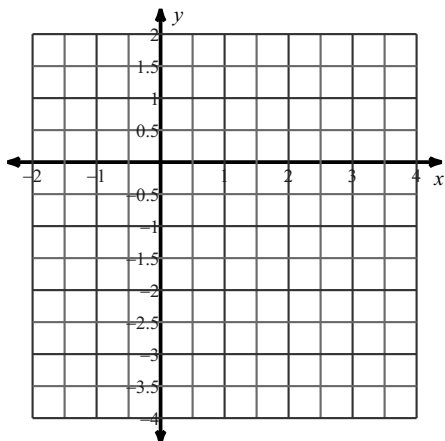


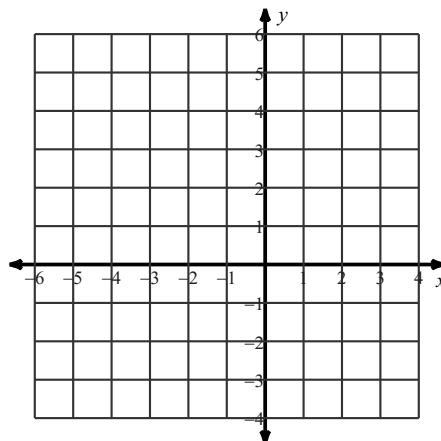
5.2 - Graphing in Vertex Form

Identify a, h, and k. Then sketch the graph of each function.

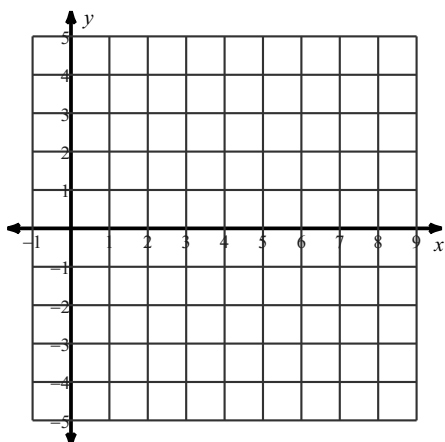
1) $f(x) = (x - 1)^2 - 3$



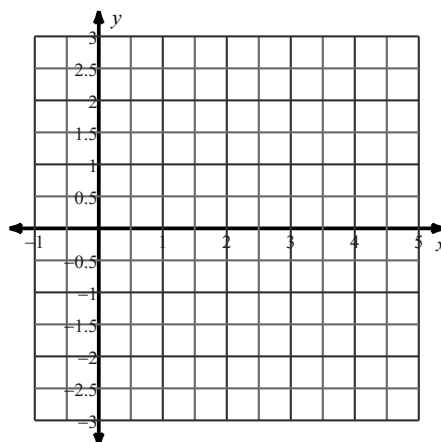
2) $f(x) = 2(x + 1)^2 - 3$



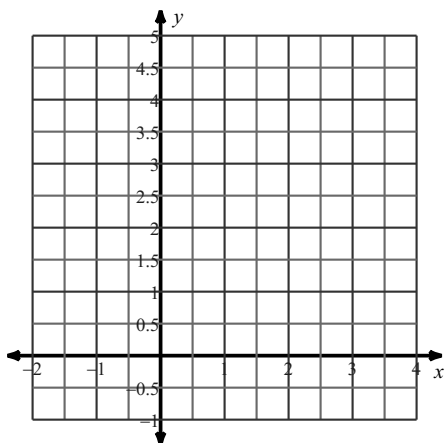
3) $f(x) = -2(x - 2)^2 + 4$



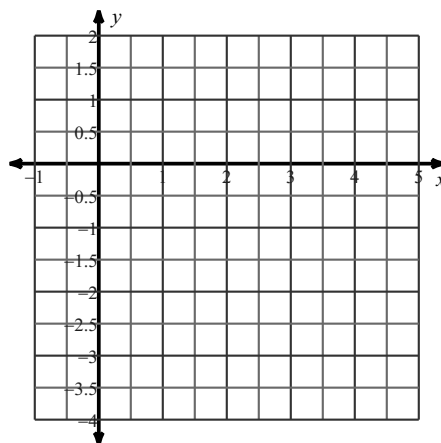
4) $f(x) = (x - 2)^2 - 2$



5) $f(x) = -(x - 1)^2 + 4$

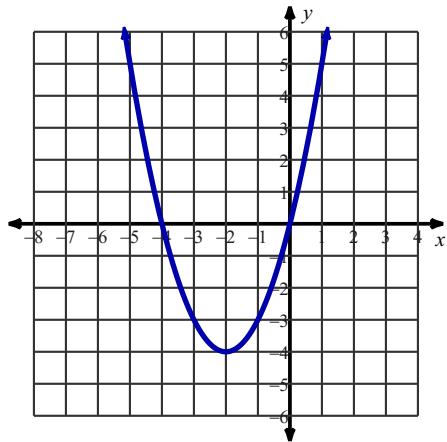


6) $f(x) = (x - 2)^2 - 3$

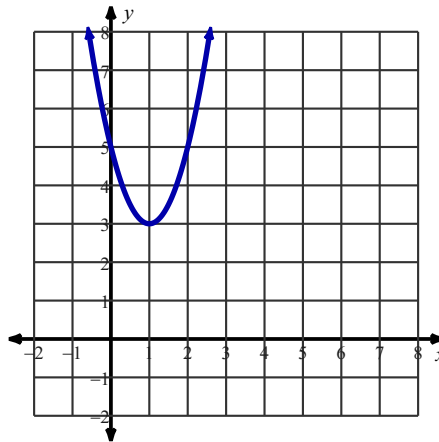


Identify the vertex, then write an equation in vertex form for the given graph.

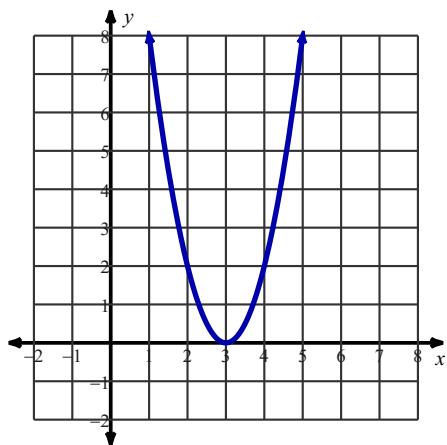
7)



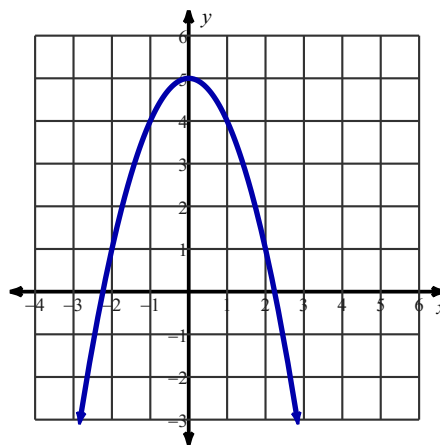
8)



9)



10)



Review: Write each as an algebraic expression.

11) a number decreased by 13

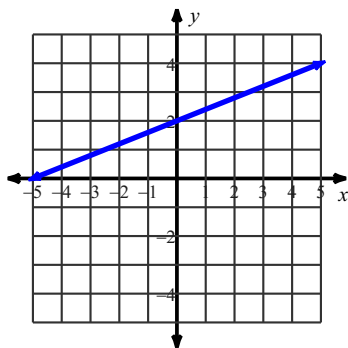
12) the quotient of 25 and a number

13) the product of 5 and a number

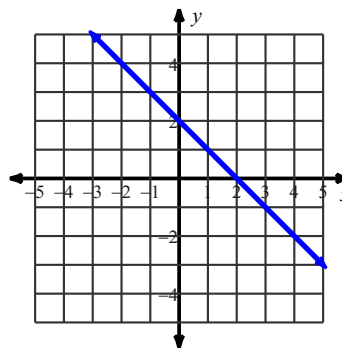
14) 6 more than a number

Review: Write the slope-intercept form of the equation of each line.

15)



16)



A) $y = -\frac{2}{5}x + 2$

B) $y = \frac{1}{5}x + 2$

A) $y = 2x - 1$

B) $y = x + 2$

C) $y = \frac{2}{5}x + 2$

D) $y = 2x + \frac{2}{5}$

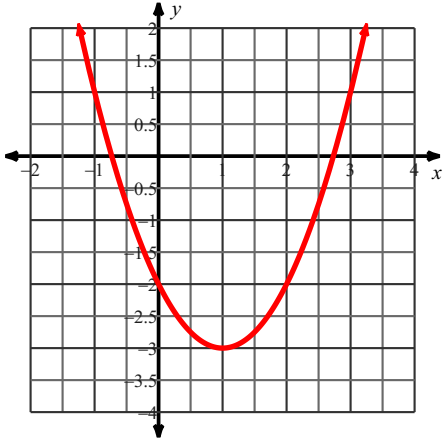
C) $y = -x + 2$

D) $y = 2x + 2$

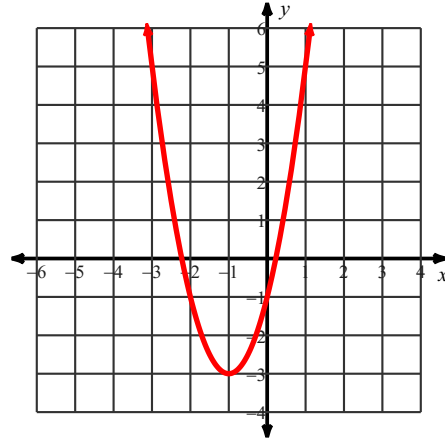
5.2 - Graphing in Vertex Form

Identify a, h, and k. Then sketch the graph of each function.

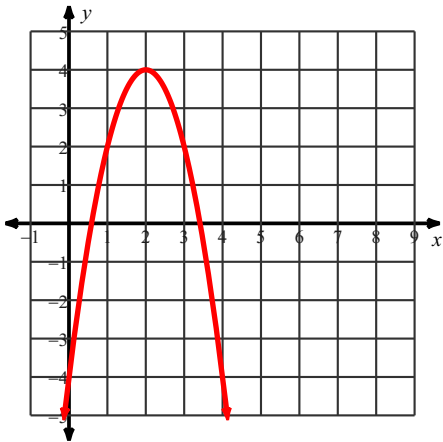
1) $f(x) = (x - 1)^2 - 3$



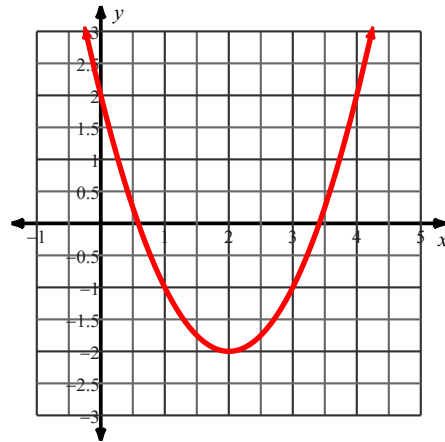
2) $f(x) = 2(x + 1)^2 - 3$



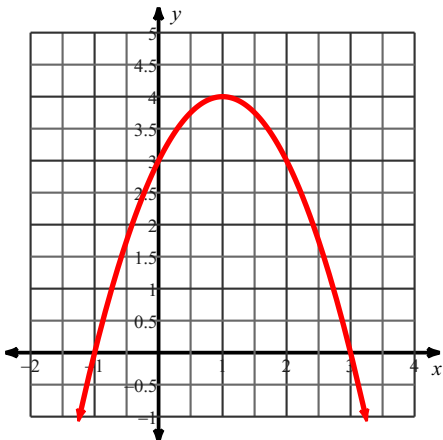
3) $f(x) = -2(x - 2)^2 + 4$



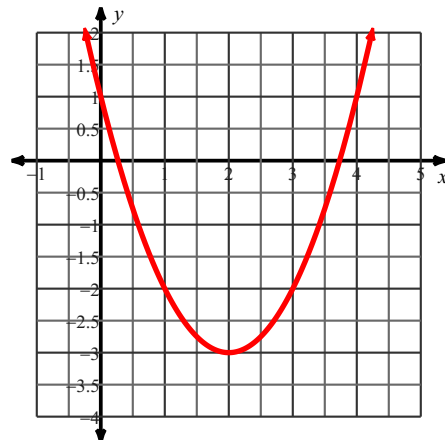
4) $f(x) = (x - 2)^2 - 2$



5) $f(x) = -(x - 1)^2 + 4$

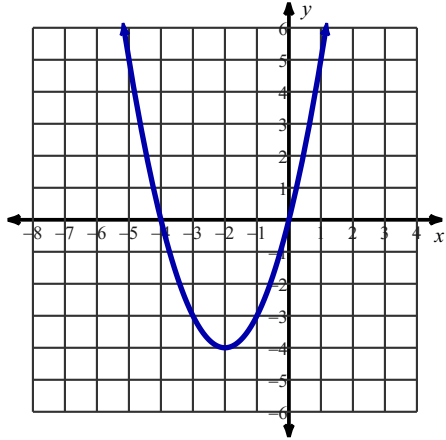


6) $f(x) = (x - 2)^2 - 3$

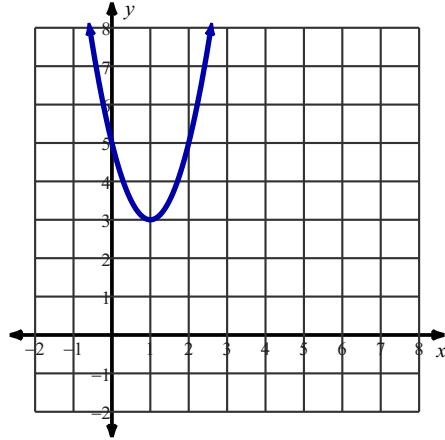


Identify the vertex, then write an equation in vertex form for the given graph.

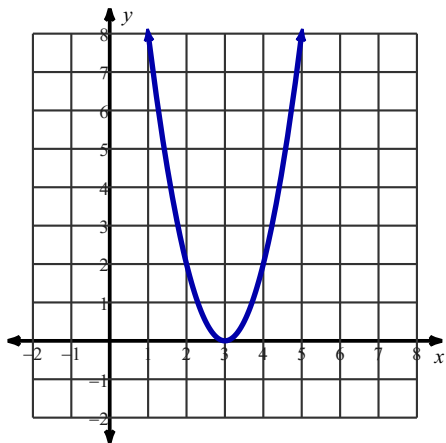
7)



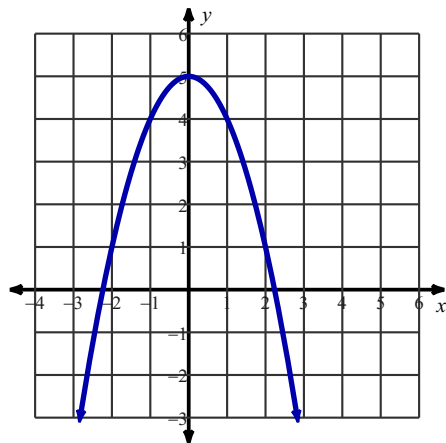
8)



9)



10)



Review: Write each as an algebraic expression.

11) a number decreased by 13

$$n - 13$$

13) the product of 5 and a number

$$5n$$

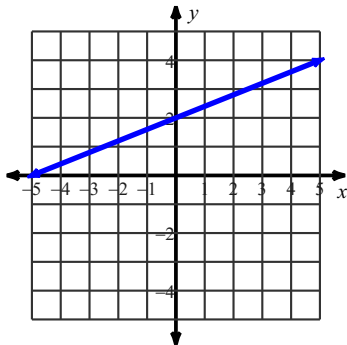
12) the quotient of 25 and a number $\frac{25}{n}$

14) 6 more than a number

$$n + 6$$

Review: Write the slope-intercept form of the equation of each line.

15)



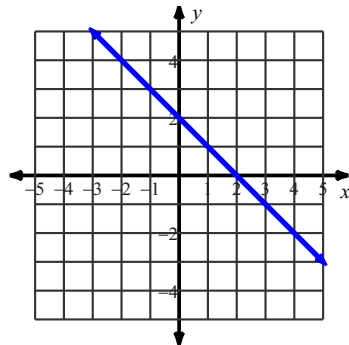
A) $y = -\frac{2}{5}x + 2$

B) $y = \frac{1}{5}x + 2$

*C) $y = \frac{2}{5}x + 2$

D) $y = 2x + \frac{2}{5}$

16)



A) $y = 2x - 1$

B) $y = x + 2$

*C) $y = -x + 2$

D) $y = 2x + 2$