

Evaluating and Graphing Functions

Evaluate each function for the given value.

1) $f(x) = 4x + 2$; Find $f(0)$

2) $f(x) = -2x + 2$; Find $f(-3)$

3) $f(x) = 2x$; Find $f\left(-\frac{9}{5}\right)$

4) $f(x) = -3x$; Find $f\left(\frac{3}{5}\right)$

5) $f(x) = 3x - 4$; Find $f(0.2)$

6) $f(x) = x + 6$; Find $f(3.8)$

7) $f(x) = |x - 3| - 5$; Find $f(8)$

8) $f(x) = -3|x - 4|$; Find $f(3)$

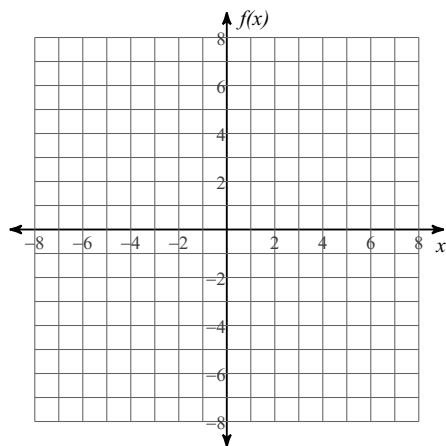
9) $f(x) = x^2 + 2x - 4$; Find $f(-1)$

10) $f(x) = x^2 - 8x + 14$; Find $f(1)$

Graph each function for the given domain.

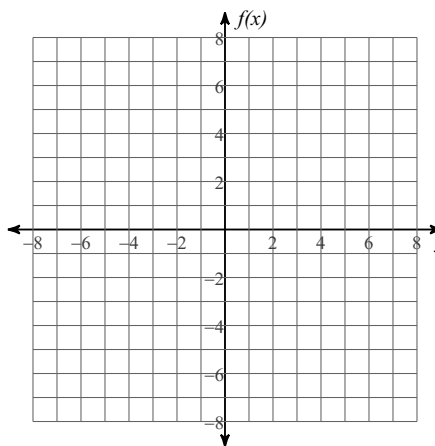
11) $f(x) = -x + 4$

Domain: $\{-4, -3, 2, 4, 6\}$

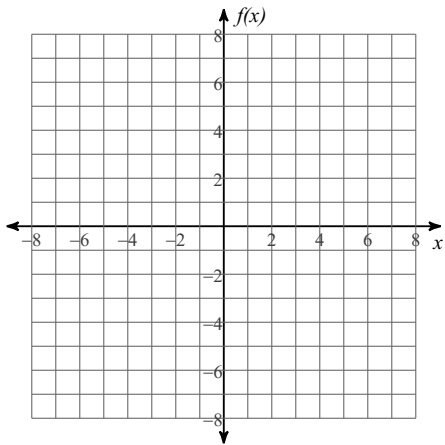


12) $f(x) = -2x - 6$

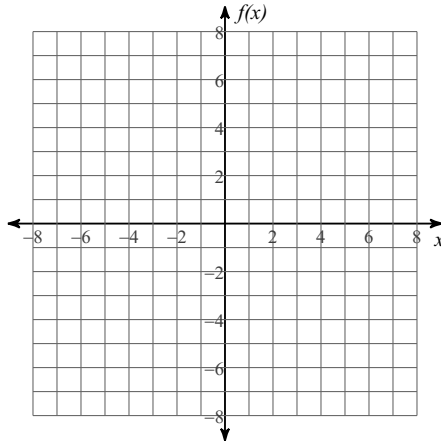
Domain: $\{-6, -5, -3, -1, 0\}$



13) $f(x) = 3|x - 5|$
Domain: $\{3, 4, 5, 6, 7\}$

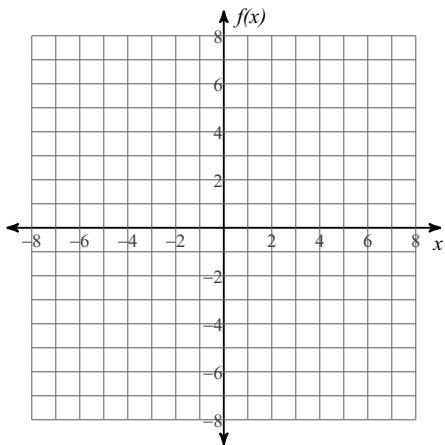


14) $f(x) = x^2$
Domain: $\{-2, -1, 0, 1, 2\}$

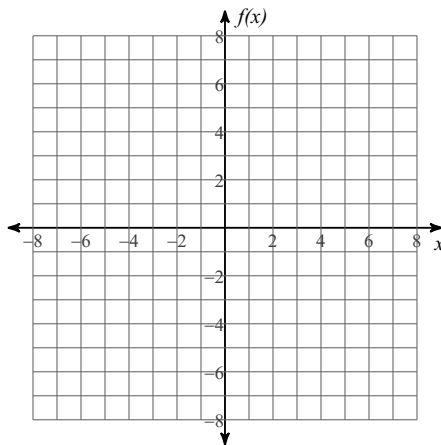


Graph each function.

15) $f(x) = -2x - 1$



16) $f(x) = 4x - 4$



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2) $f(x) = -2x + 2$; Find $f(-3)$

8

3) $f(x) = 2x$; Find $f\left(-\frac{9}{5}\right)$

 $-\frac{18}{5}$

4) $f(x) = -3x$; Find $f\left(\frac{3}{5}\right)$

 $-\frac{9}{5}$

5) $f(x) = 3x - 4$; Find $f(0.2)$

 -3.4

6) $f(x) = x + 6$; Find $f(3.8)$

9.8

7) $f(x) = |x - 3| - 5$; Find $f(8)$

0

8) $f(x) = -3|x - 4|$; Find $f(3)$

 -3

9) $f(x) = x^2 + 2x - 4$; Find $f(-1)$

 -5

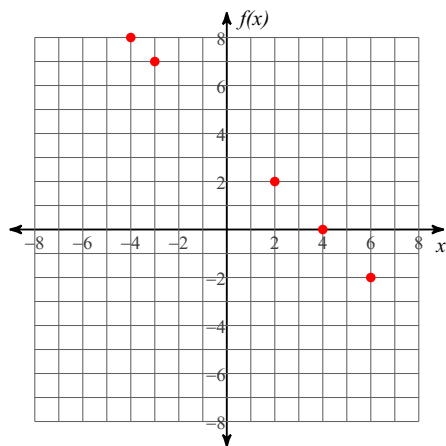
10) $f(x) = x^2 - 8x + 14$; Find $f(1)$

7

Graph each function for the given domain.

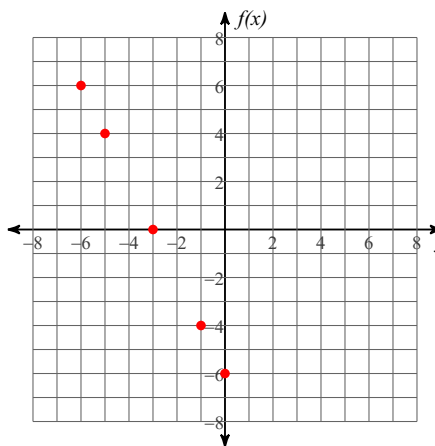
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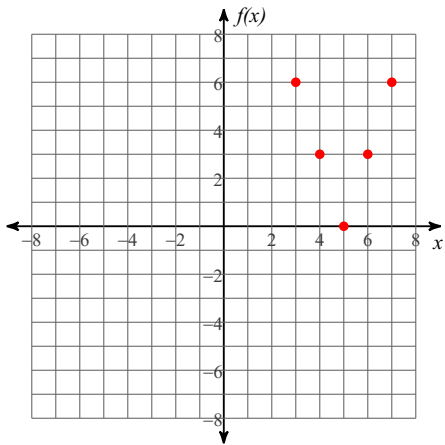


12) $f(x) = -2x - 6$

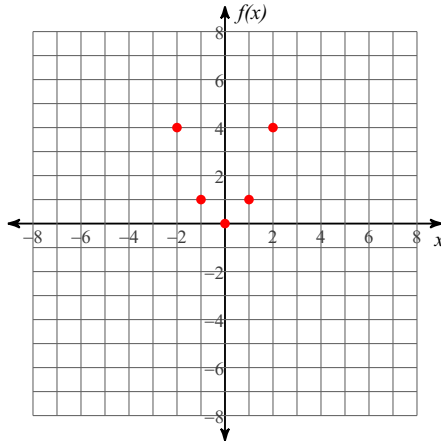
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 Domain: $\{3, 4, 5, 6, 7\}$

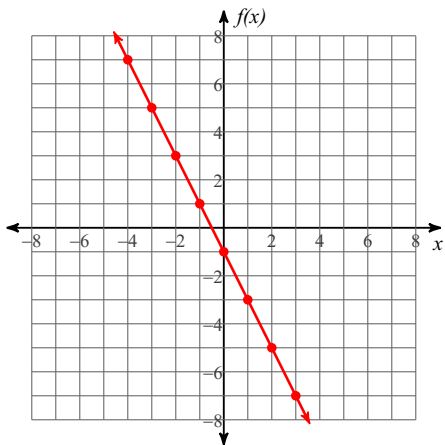


14) $f(x) = x^2$
 Domain: $\{-2, -1, 0, 1, 2\}$



Graph each function.

15) $f(x) = -2x - 1$



16) $f(x) = 4x - 4$

