Candle Center - Infinite Algebra 2 Name_____

Evaluating and Graphing Functions

Date_____ Period____

Evaluate each function for the given value.

1) $f(x) = 4x + 6$; Find $f(0)$

2) $f(x) = x + 2$; Find $f(7)$

3) $f(x) = -3x - 5$; Find $f\left(-\frac{8}{3}\right)$

4) $f(x) = 4x - 4$; Find $f\left(\frac{1}{3}\right)$

5) $f(x) = -4x - 1$; Find $f(-1.9)$

6) $f(x) = 4x - 1$; Find $f(-1.6)$

7) $f(x) = -|x - 1| + 5$; Find $f(-6)$

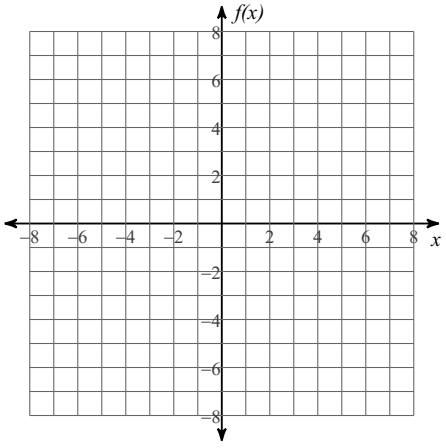
8) $f(x) = |x + 5| - 2$; Find $f(6)$

9) $f(x) = -x^2 - 8x - 12$; Find $f(-2)$

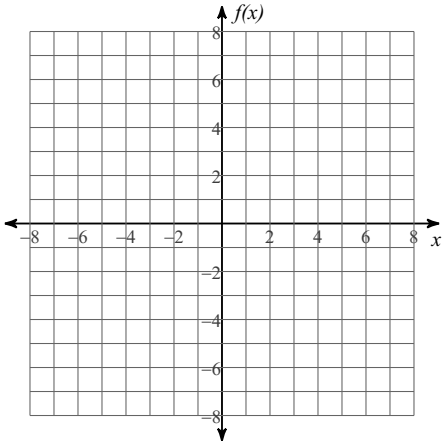
10) $f(x) = -x^2 - 8x - 13$; Find $f(-4)$

Graph each function for the given domain.

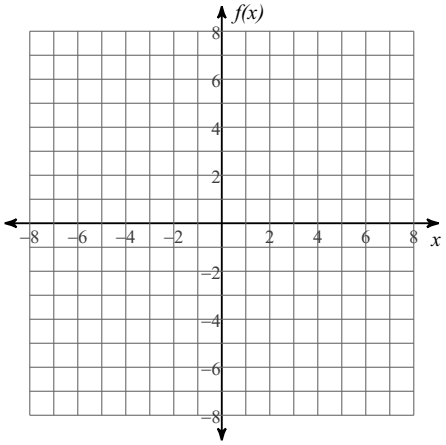
11) $f(x) = 2x + 2$
Domain: $\{-5, -4, -3, -1, 2\}$



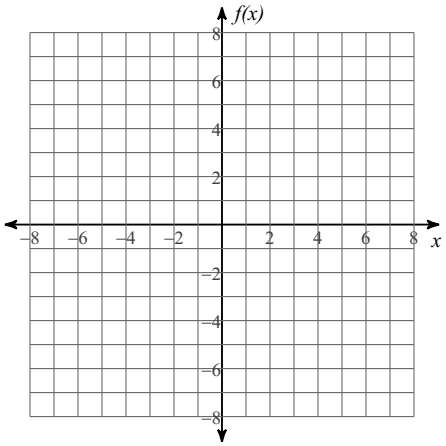
12) $f(x) = -2x + 4$
Domain: $\{0, 2, 3, 4, 5\}$



13) $f(x) = 2|x + 3| - 5$
Domain: $\{-8, -5, -4, 0, 3\}$

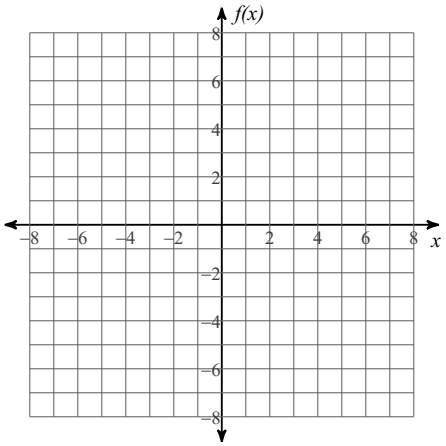


14) $f(x) = x^2 + 2x$
Domain: $\{-4, -1, 0, 1, 2\}$

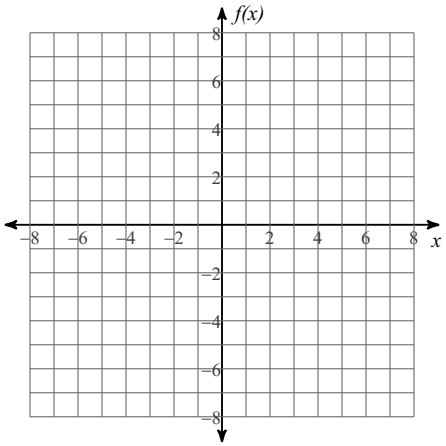


Graph each function.

15) $f(x) = -3x - 6$



16) $f(x) = 2x + 1$



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Date_____ Period____

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1) $f(x) = 4x + 6$; Find $f(0)$

6

2) $f(x) = x + 2$; Find $f(7)$

9

3) $f(x) = -3x - 5$; Find $f\left(-\frac{8}{3}\right)$

3

4) $f(x) = 4x - 4$; Find $f\left(\frac{1}{3}\right)$

$-\frac{8}{3}$

5) $f(x) = -4x - 1$; Find $f(-1.9)$

6.6

6) $f(x) = 4x - 1$; Find $f(-1.6)$

−7.4

7) $f(x) = -|x - 1| + 5$; Find $f(-6)$

−2

8) $f(x) = |x + 5| - 2$; Find $f(6)$

9

9) $f(x) = -x^2 - 8x - 12$; Find $f(-2)$

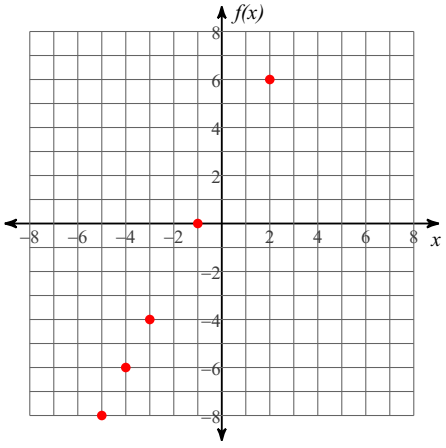
0

10) $f(x) = -x^2 - 8x - 13$; Find $f(-4)$

3

Graph each function for the given domain.

11) $f(x) = 2x + 2$
Domain: $\{-5, -4, -3, -1, 2\}$



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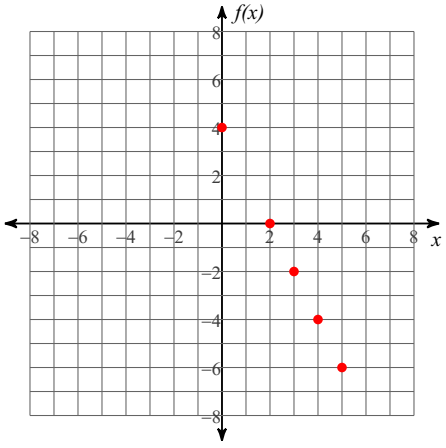
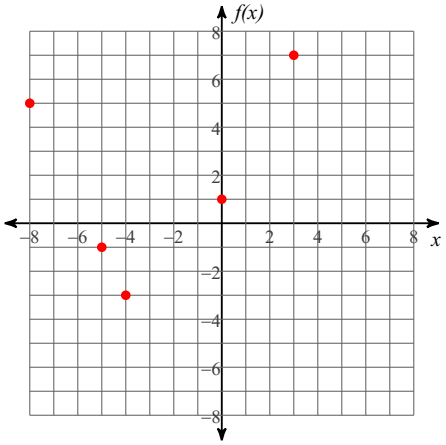


13) $f(x) = 2|x + 3| - 5$

Domain: $\{-8, -5, -4, 0, 3\}$



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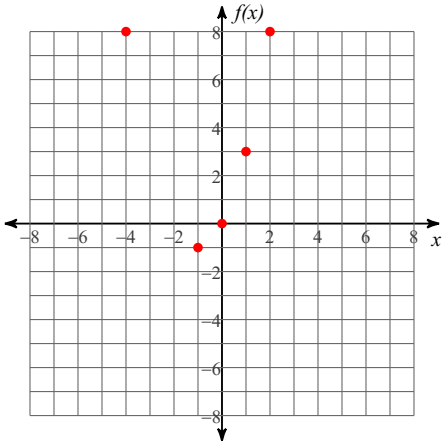
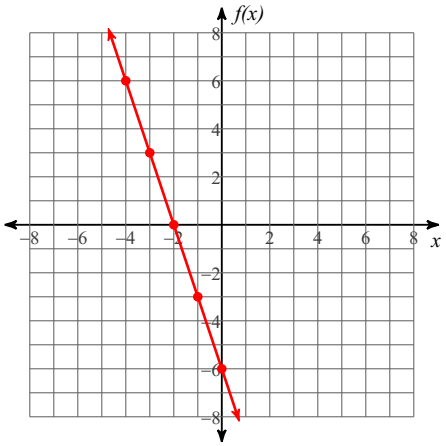


Graph each function.

15) $f(x) = -3x - 6$



16) $f(x) = 2x + 1$