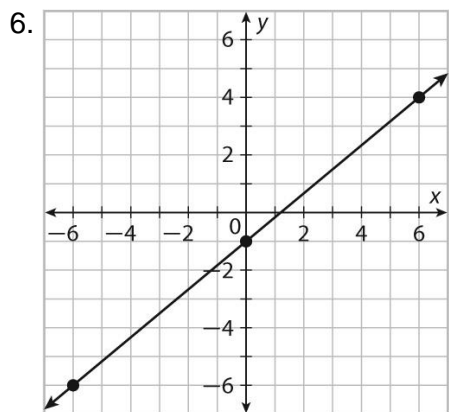
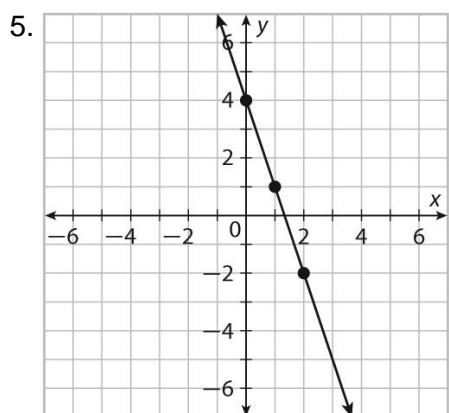


MODULE 6 Forms of Linear Equations

LESSON 6-1

Practice and Problem Solving: A/B

- $y = -4x + 7$; slope: -4 ; y-intercept: 7
- $y = \frac{2}{3}x - 3$; slope: $\frac{2}{3}$; y-intercept: -3
- $y = \frac{5}{4}x - \frac{3}{2}$; slope: $\frac{5}{4}$; y-intercept: $-\frac{3}{2}$
- $y = -\frac{1}{2}x + 4$; slope: $-\frac{1}{2}$; y-intercept: 4



- slope is 3 , y-intercept is -5
- $y = 0.25x - 11$
- $f(x) = 30,000 - 500x$

LESSON 6-2

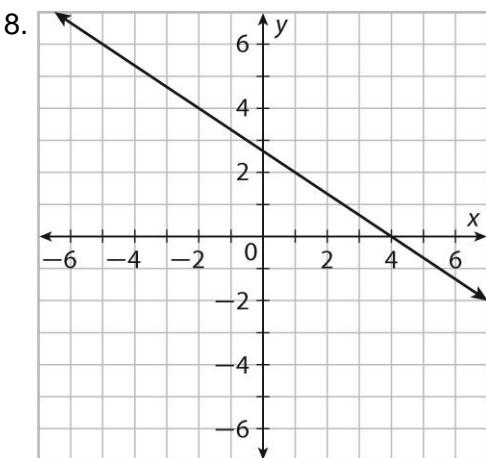
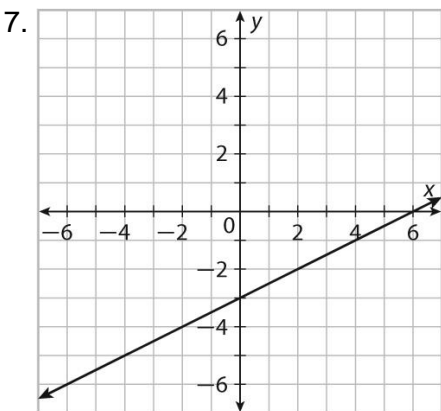
Practice and Problem Solving: A/B

- $y - 5 = 2(x - 3)$
- $y - 7 = -3(x + 1)$
- $y - 3 = 0(x - 4)$; or $y - 3 = 0(x + 10)$
- $y - 2 = \frac{2}{5}(x - 5)$; or $y = \frac{2}{5}(x)$
- $y = \frac{9}{2}(x)$; or $y - 9 = \frac{9}{2}(x - 2)$; or $y - 18 = \frac{9}{2}(x - 4)$
- $y - 18 = -\frac{9}{3}(x + 2)$; or $y - 9 = -\frac{9}{3}(x + 1)$; or $y = -\frac{9}{3}(x - 4)$
- $y - 5 = -\frac{1}{2}(x)$; or $y - 3 = \frac{-1}{2}(x - 4)$
- $y + 3 = \frac{1}{6}(x)$; or $y + 2 = \frac{1}{6}(x - 6)$
- $y - 400 = 50(x - 4)$; \$700

LESSON 6-3

Practice and Problem Solving: A/B

- not standard; $3x - y = 0$
- not standard; $5x + y = -4$
- not standard; $2x + 2y = 8$
- $6x - y = 11$
- $x + y = 7$
- $9x - y = -47$



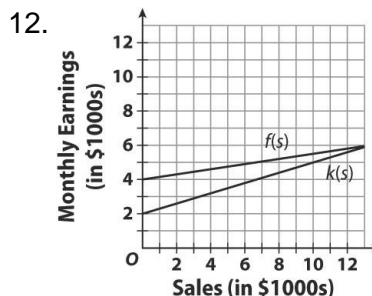
- $200x - y = -50$
- $x - 4y = -4$

LESSON 6-4

Practice and Problem Solving: A/B

- $y = 6x + 11$
- $y = -5x - 1$
- $y = 2x - 4$
- $y = 6x - 1$
- $y = x - 1$
- $y = 2x$

- $y = 3x - 1$
- $y = 4x + 2$
- $g(s) = 4000 + 0.05s$
- $h(s) = 8000 + 0.15s$
- $k(s) = 2000 + 0.3s$



LESSON 6-5

Practice and Problem Solving: A/B

- $2 \leq x \leq 9$
- $1 \leq x \leq 8$
- $1 \leq y \leq 10$
- $0 \leq g(x) \leq 35$
- $f(2) = 1$
- $g(1) = 35$
- $\frac{9}{7}$
- -5
- Possible answer: The graphs are not alike at all. They have a different slope, different initial values and different domain and ranges.
- Possible answer: The temperature from 2 o'clock to 9 o'clock rose from 1 to 10 degrees at a rate of $\frac{9}{7}$ degrees per hour.
- Possible answer: A tank has 35 gallons of water at 1 o'clock. The tank loses 5 gallons each hour until there is no water left.
- $f(x)$ would have y-intercept of $-\frac{11}{7}$ and $g(x)$ would have y-intercept of 40.