

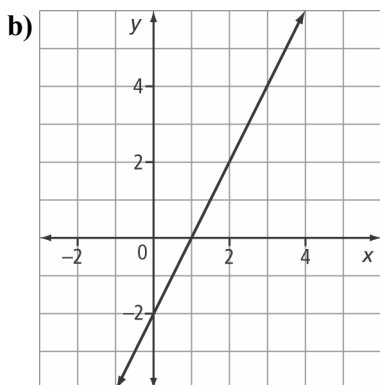
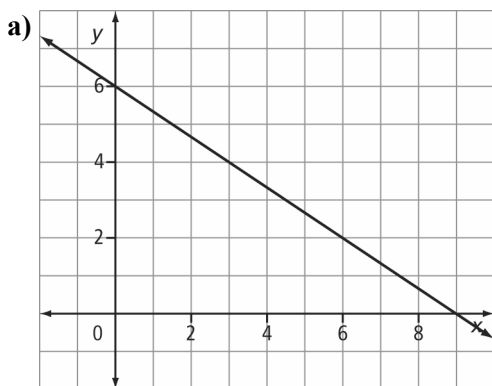
Chapter 7 Warm-Up

Section 7.1 Warm-Up

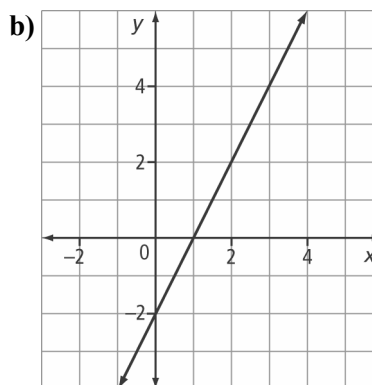
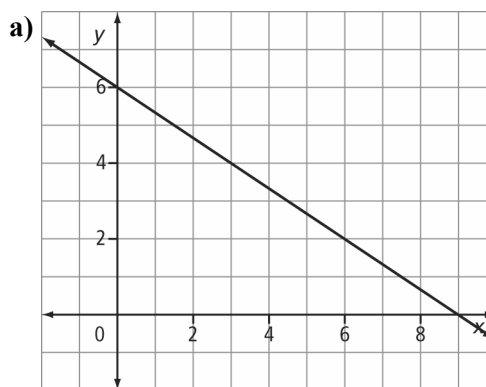
1. Determine the slope of the line segment formed by joining each pair of points.

- a) (3, 6) and (1, 5)
- b) (3, 6) and (5, 1)
- c) (3, 6) and (3, 8)

2. Identify the slope of each line.



3. Identify the x -intercept and y -intercept of each line. Write your answers as ordered pairs.



4. To rent a venue for a party costs \$200. You also pay \$40 for each hour of use.

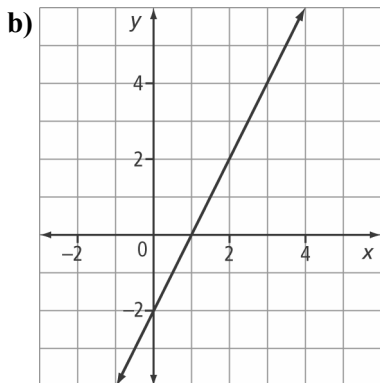
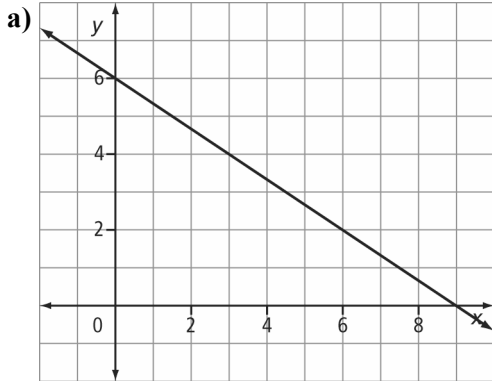
- a) How much will it cost for a 1-h party?
- b) What would the cost be for a 5-h party?
- c) Determine a formula to model the cost of the venue.

5. Solve each equation for the desired variable.

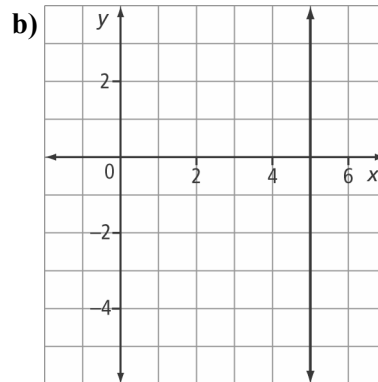
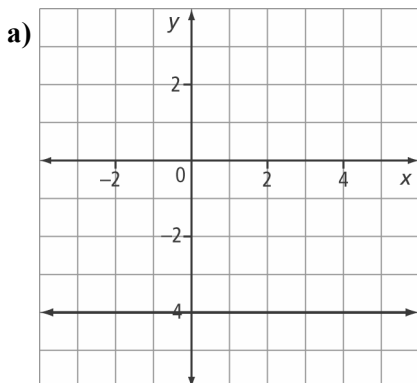
- a) $P = 2l + 2w$; solve for l
- b) $C = \pi d$; solve for d

Section 7.2 Warm-Up

1. Write the equation of each line in slope-intercept form.



2. Write the equation of each line in slope-intercept form.



3. On grid paper, draw each line. Then, write the equation of the line in slope-intercept form.

a) The slope is $-\frac{1}{3}$. The line passes through the point $(6, 5)$.

b) The slope is 0. The line passes through the point $(-6, 5)$.

4. Solve each equation.

a) $\frac{2}{3}x + 5 = 2$

b) $\frac{3}{4}x - 7 = x$

5. Solve each equation for y .

a) $3x - 4y + 12 = 0$

b) $2x + 6y - 24 = 0$

Section 7.3 Warm-Up

1. Rewrite each equation in general form.

a) $y = \frac{2}{3}x + 1$

b) $y = -\frac{1}{5}x - 3$

2. Rewrite each equation in general form.

a) $y - 3 = 2(x + 5)$

b) $y + 2 = 4(x - 1)$

3. Simplify.

a) $2\left[\frac{3}{2}(x-4)\right]$

b) $5\left[\frac{4}{5}(x-1)\right]$

4. Visualize each of the following lines. Then, write the equation in slope-intercept form.

a) x -intercept of 4 and y -intercept of -5

b) passing through $(0, 2)$ and $(4, 0)$

5. On grid paper, draw each line. Then, write the equation of the line in slope-intercept form.

a) passing through $(2, 5)$ and $(-1, -4)$

b) passing through $(-3, 6)$ and $(0, 0)$

Section 7.4 Warm-Up

1. Identify the slope of each linear equation.

a) $3x - y + 8 = 0$

b) $2x - 5y + 7 = 0$

2. Write the equation of each line in slope-point form.

a) slope of $\frac{2}{3}$ and passing through $(-1, 5)$

b) passing through $(4, 2)$ and $(8, 3)$

3. Write the equation of each line in slope-intercept form.

a) slope of -4 and passing through $(2, 7)$

b) passing through $(2, 5)$ and $(0, 6)$

4. Write an equation in general form of the line that passes through $(3, 7)$ and $(5, -1)$.

5. Complete each statement.

a) $\frac{2}{3}$ is to $-\frac{3}{2}$ as $\frac{4}{5}$ is to \square .

b) -4 is to $\frac{1}{4}$ as -3 is to \square .

c) $\frac{1}{2}$ is to -2 as $-\frac{1}{5}$ is to \square .