

Math 10

Lesson 4-3 Answers

Lesson Questions

Question 1

Draw the following lines:

- a) Plot the point $K(0, -4)$ and then go 3 up and 5 right to find the second point. Draw a line between the two points. Remember to add arrows to the line to indicate that it continues on in both directions.
- b) Calculate two points. Since the denominator in the slope is 3, I chose $x = -3$ and 3.

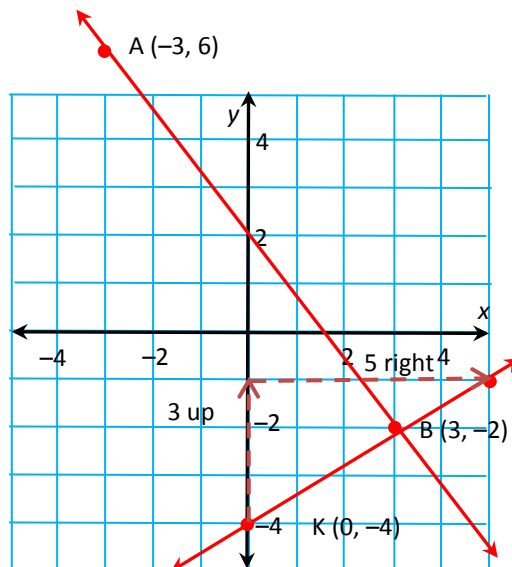
$$y = -\frac{4}{3}x + 2 \qquad y = -\frac{4}{3}x + 2$$

$$y = -\frac{4}{3}(\cancel{-3}) + 2 \qquad y = -\frac{4}{3}(\cancel{3}) + 2$$

$$y = 4 + 2 \qquad y = -4 + 2$$

$$y = 6 \qquad y = -2$$

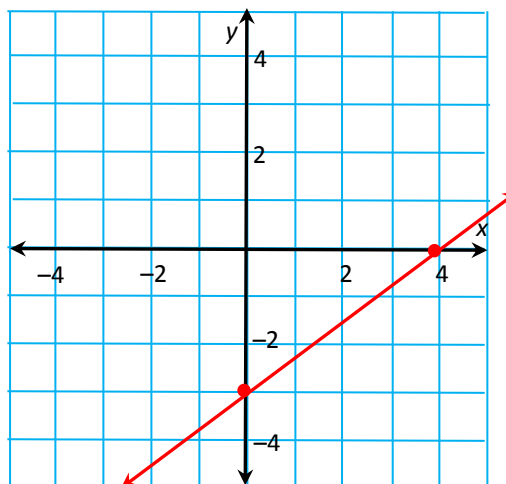
$$A(-3, 6) \qquad B(3, -2)$$



Question 2

x-intercept, set $y = 0$
 $3x - 4y = 12$
 $3x - 4(0) = 12$
 $3x = 12$
x-intercept = 4

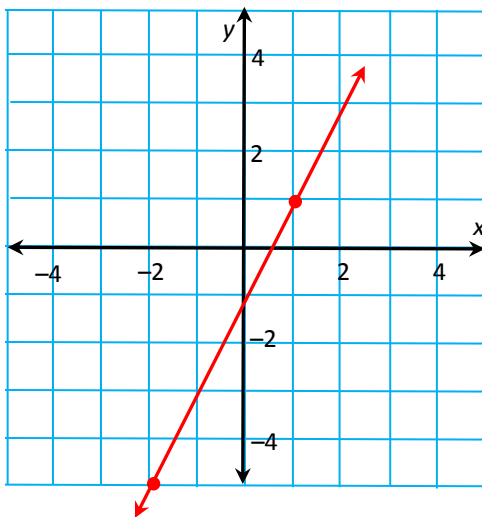
y-intercept, set $x = 0$
 $3x - 4y = 12$
 $3(0) - 4y = 12$
 $-4y = 12$
y-intercept = -3



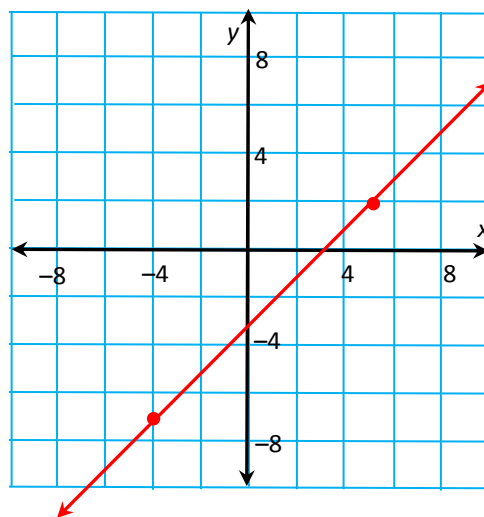
Assignment

1.

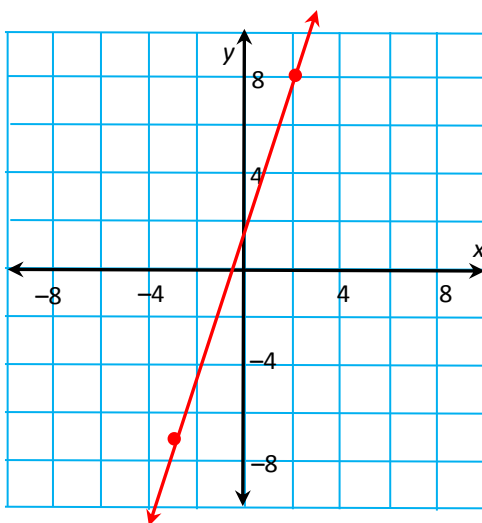
a)



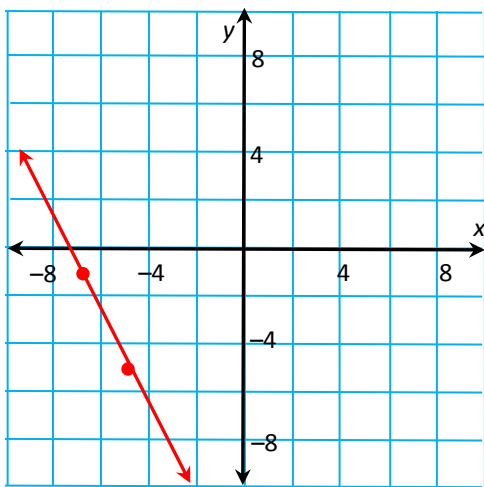
b)



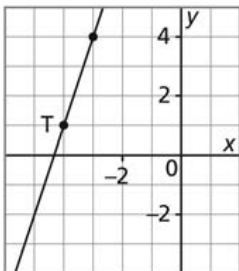
c)



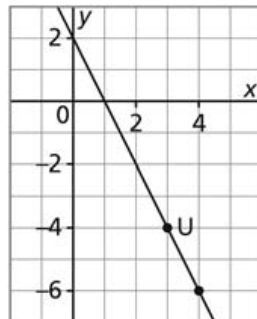
d)



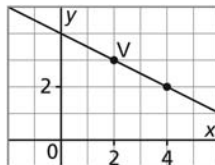
2. a)



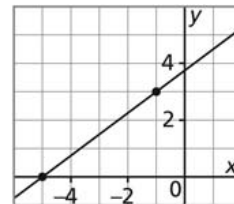
b)



c)

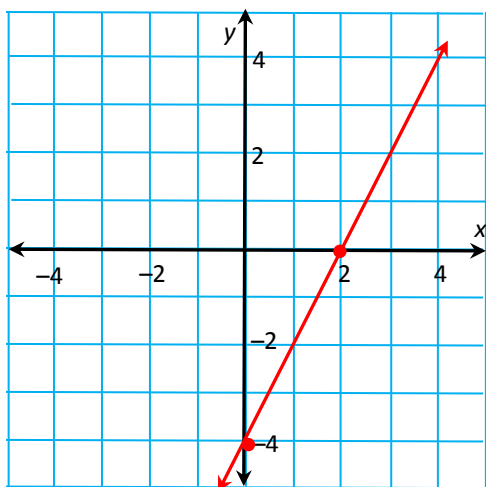


d)

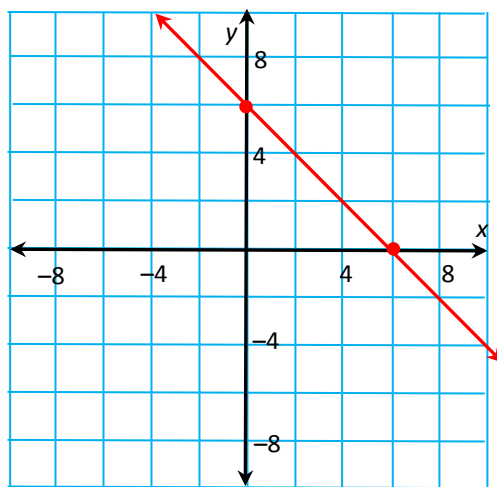


3.

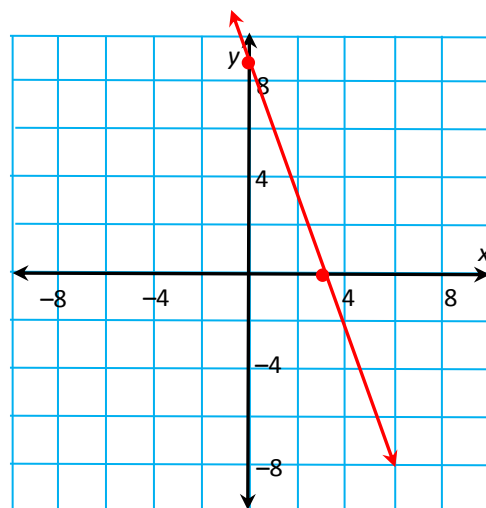
a)



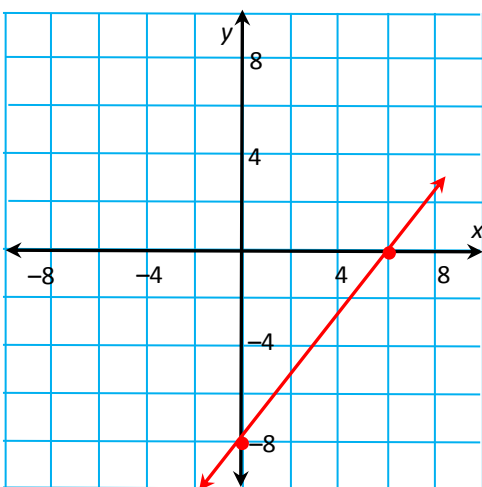
b)



c)

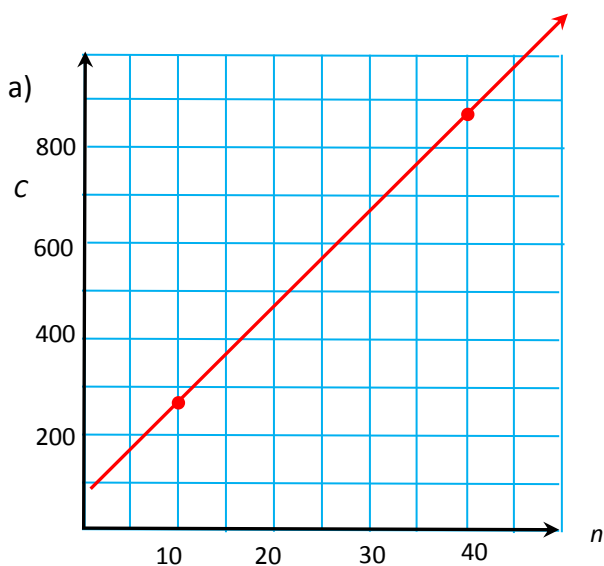


d)



4.

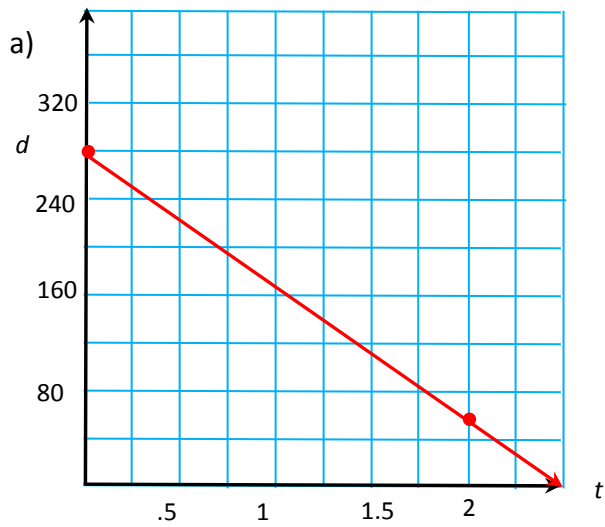
a)



b) The cost of 35 copies is approximately \$7.80.

c) Approximately 46 copies can be made for \$10.

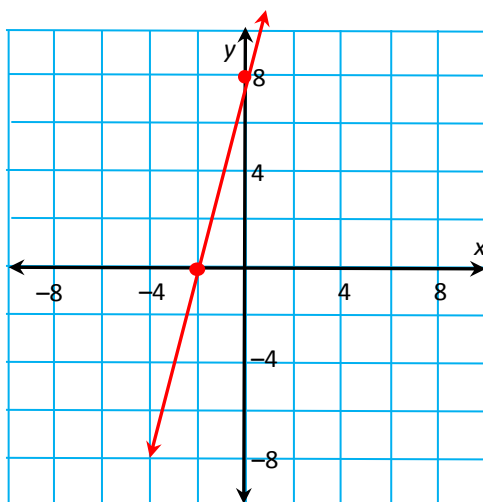
5.



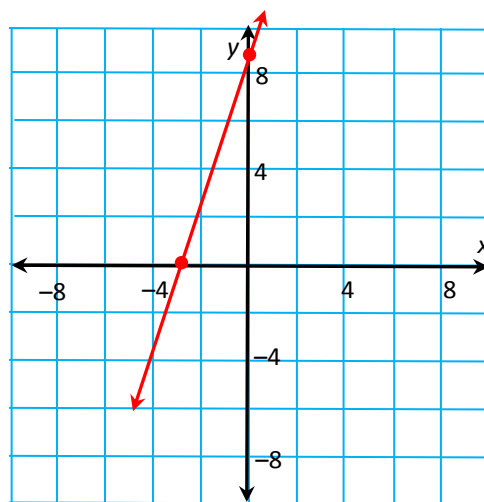
b) After 2 h, the distance from Calgary is approximately 60 km and from Edmonton 220 km.

6.

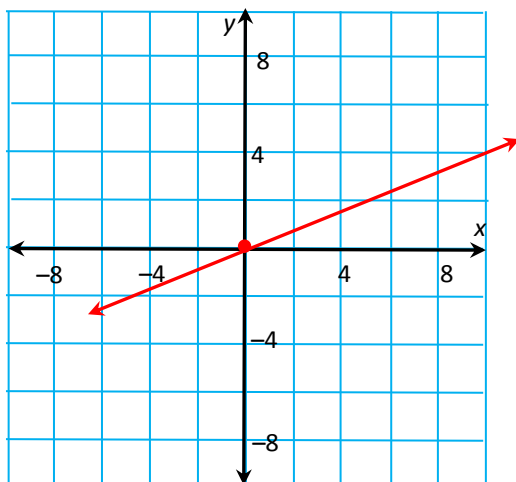
a)



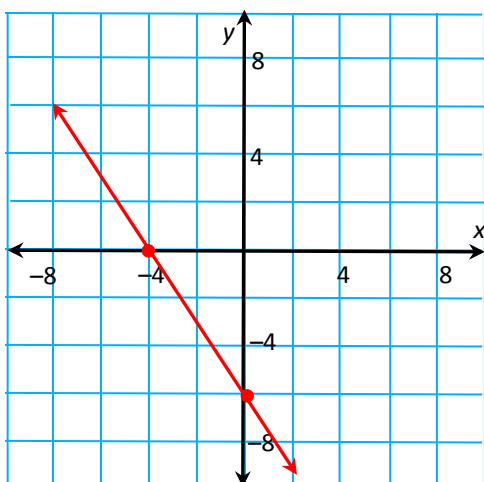
b)



c)



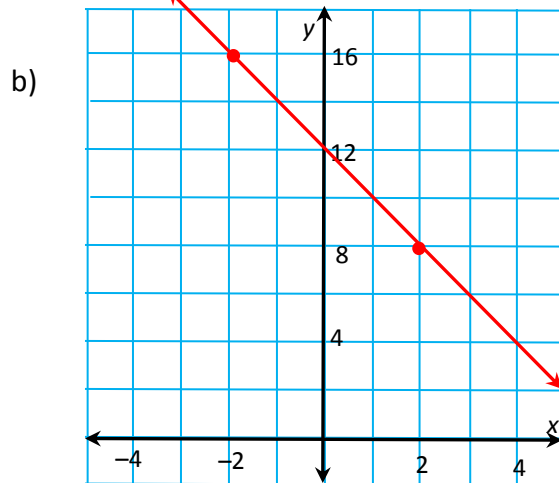
d)



7.

a)

| first (x) | second (y) |
|-----------|------------|
| -2 | 16 |
| -1 | 14 |
| 0 | 12 |
| 1 | 10 |
| 2 | 8 |



c) coordinates (3, 6)

$$3 \cdot 2 + 6 = 12$$

c) coordinates (-2, 12)

$$-2 \cdot 2 + 12 \neq 12$$