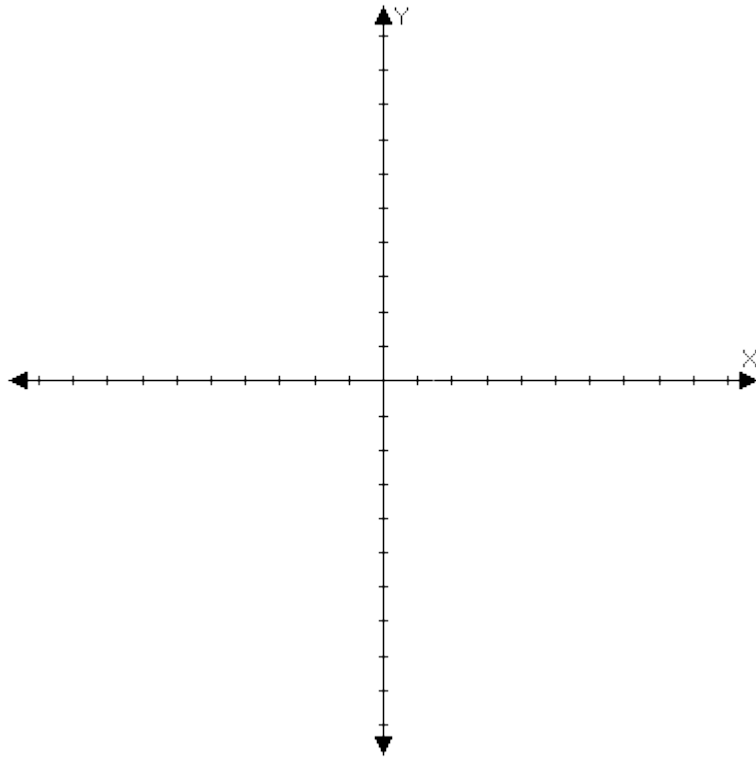


## Review Exercise Set 12

Exercise 1: Graph the given linear function by plotting points.

$$f(x) = \frac{5}{4}x - 2$$

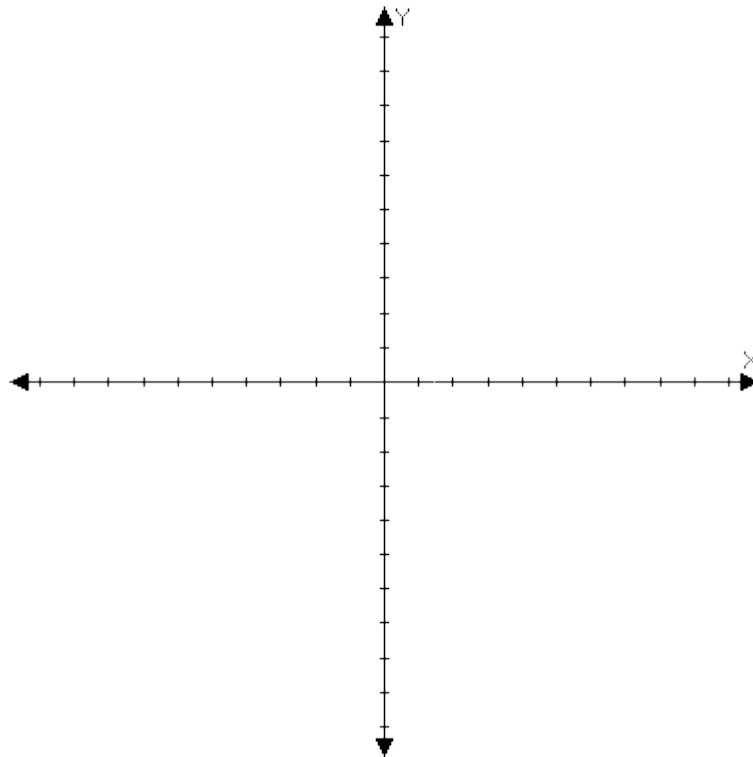
x	y



Exercise 2: Graph the given linear function by plotting points.

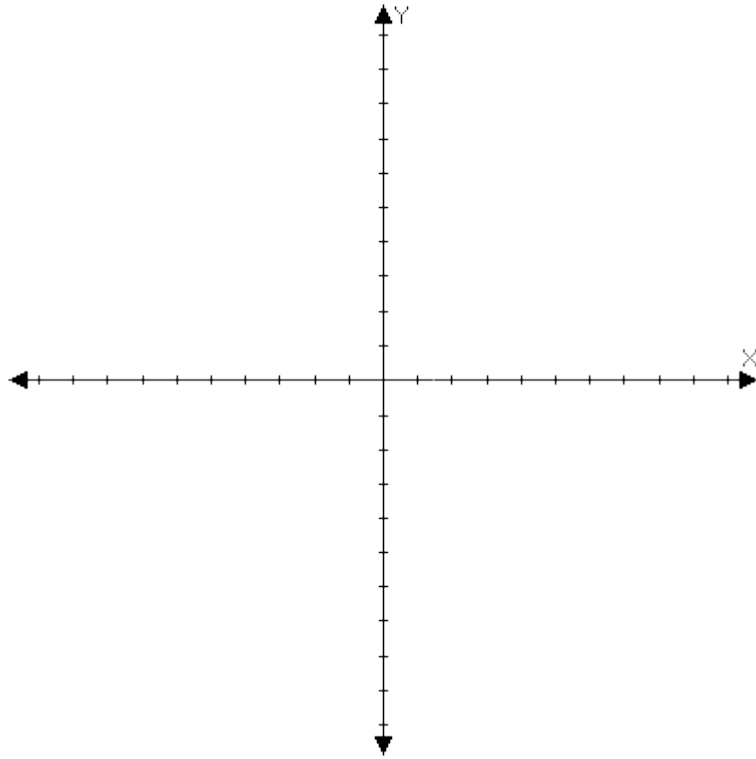
$$f(x) = -3x + 4$$

x	y



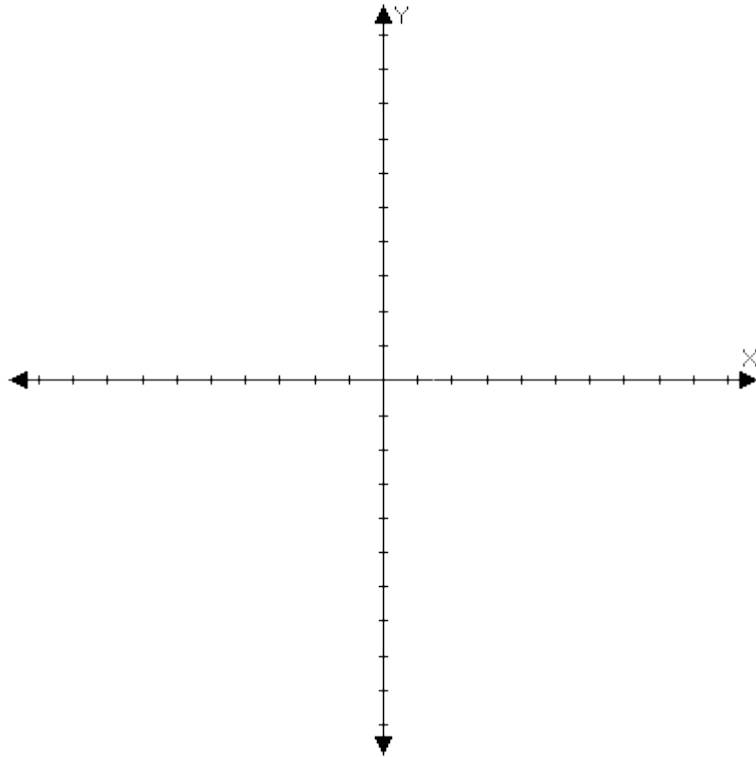
Exercise 3: Graph the given linear function by using the intercepts.

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

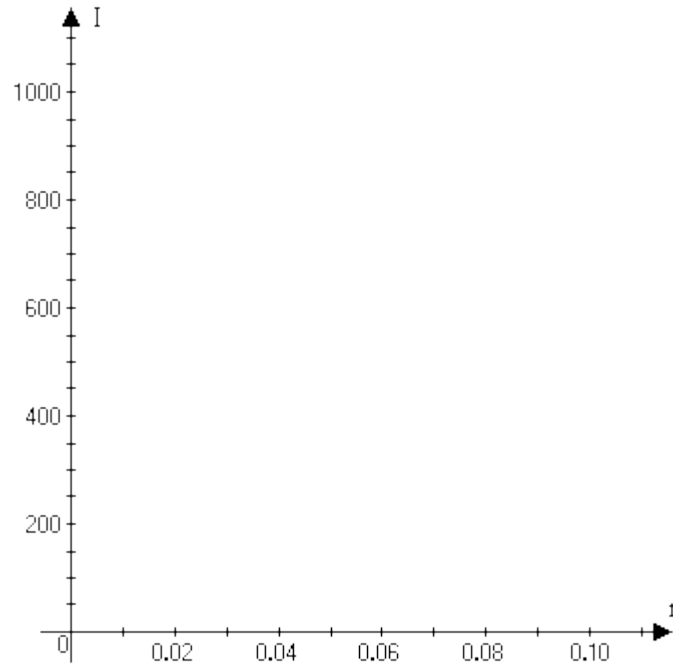


Exercise 4: Graph the given linear function by using the intercepts.

$$f(x) = -\frac{1}{3}x + 1$$



Exercise 5: Write the function expressing the interest on a \$10,000 one-year loan in terms of the interest rate. Graph the interest function for various interest rates up to 10%. (Note for a one-year loan the interest = principal \* rate)

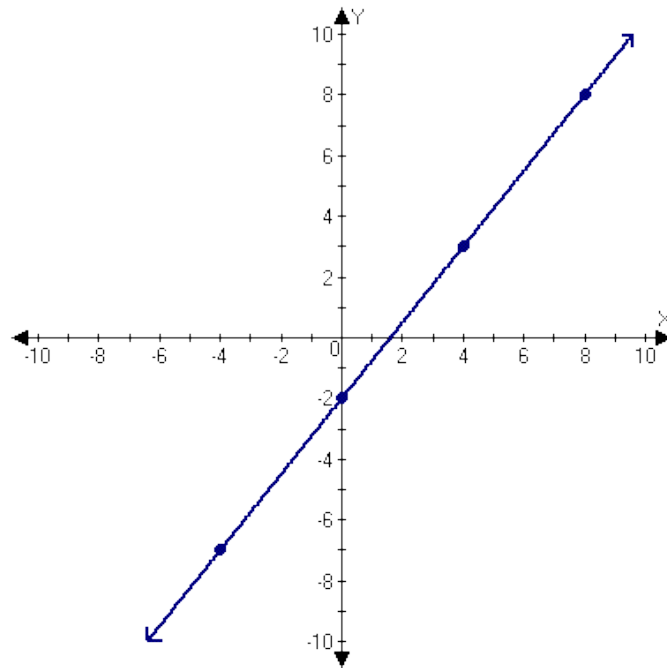


## Review Exercise Set 12 Answer Key

Exercise 1: Graph the given linear function by plotting points.

$$f(x) = \frac{5}{4}x - 2$$

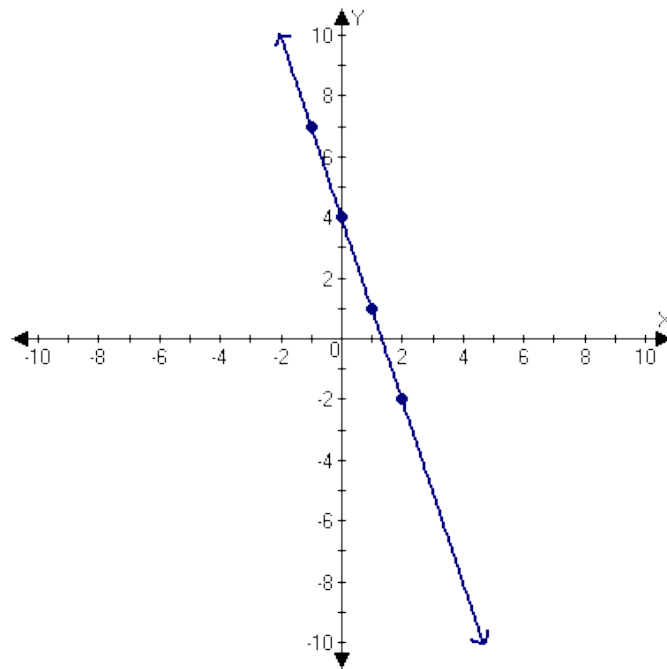
x	y
-4	$\frac{5}{4}(-4) - 2 = -5 - 2 = -7$
0	$\frac{5}{4}(0) - 2 = 0 - 2 = -2$
4	$\frac{5}{4}(4) - 2 = 5 - 2 = 3$
8	$\frac{5}{4}(8) - 2 = 10 - 2 = 8$



Exercise 2: Graph the given linear function by plotting points.

$$f(x) = -3x + 4$$

x	y
-1	$-3(-1) + 4 = 3 + 4 = 7$
0	$-3(0) + 4 = 0 + 4 = 4$
1	$-3(1) + 4 = -3 + 4 = 1$
2	$-3(2) + 4 = -6 + 4 = -2$



Exercise 3: Graph the given linear function by using the intercepts.

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

x-intercept

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

$$0 = 2x - 6$$

$$-2x = -6$$

$$x = 3$$

(3, 0)

y-intercept

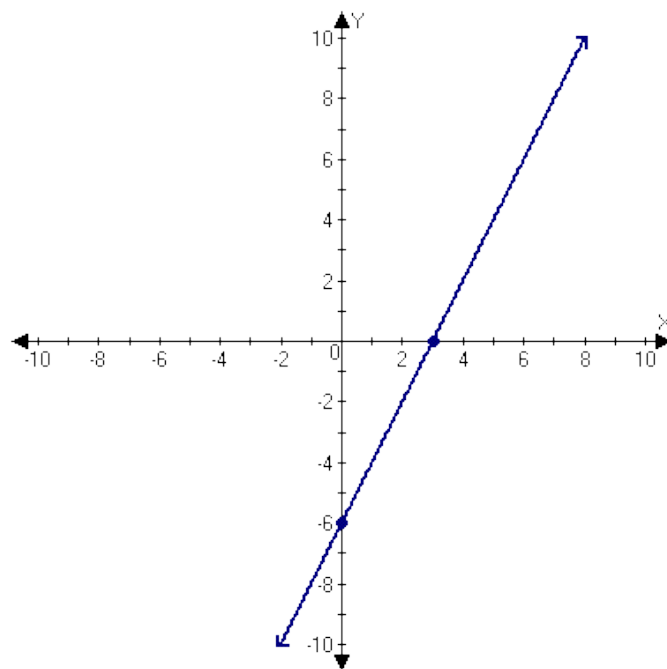
$$f(x) = 2x - 6$$

$$f(0) = 2(0) - 6$$

$$f(0) = 0 - 6$$

$$f(0) = -6$$

(0, -6)





Exercise 4: Graph the given linear function by using the intercepts.

$$f(x) = -\frac{1}{3}x + 1$$

x-intercept

$$f(x) = -\frac{1}{3}x + 1$$

$$0 = -\frac{1}{3}x + 1$$

$$\frac{1}{3}x = 1$$

$$x = 3$$

(3, 0)

y-intercept

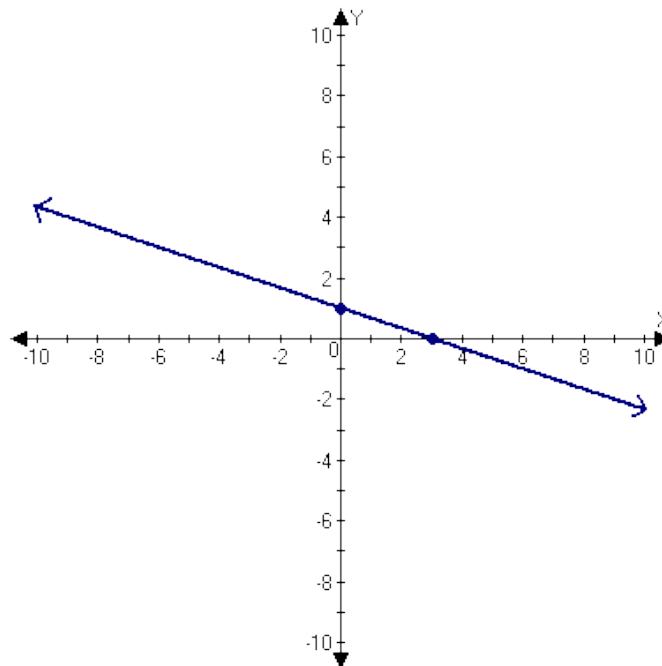
$$f(x) = -\frac{1}{3}x + 1$$

$$f(0) = -\frac{1}{3}(0) + 1$$

$$f(0) = 0 + 1$$

$$f(0) = 1$$

(0, 1)



Exercise 5: Write the function expressing the interest on a \$10,000 one-year loan in terms of the interest rate. Graph the interest function for various interest rates up to 10%. (Note for a one-year loan the interest = principal \* rate)

$$I(r) = Pr$$
$$I(r) = 10000r$$

