

Part 1 – USING POINTS/USING THE X AND Y-INTERCEPTS

1. For the function: $f(x) = -4x + 5$

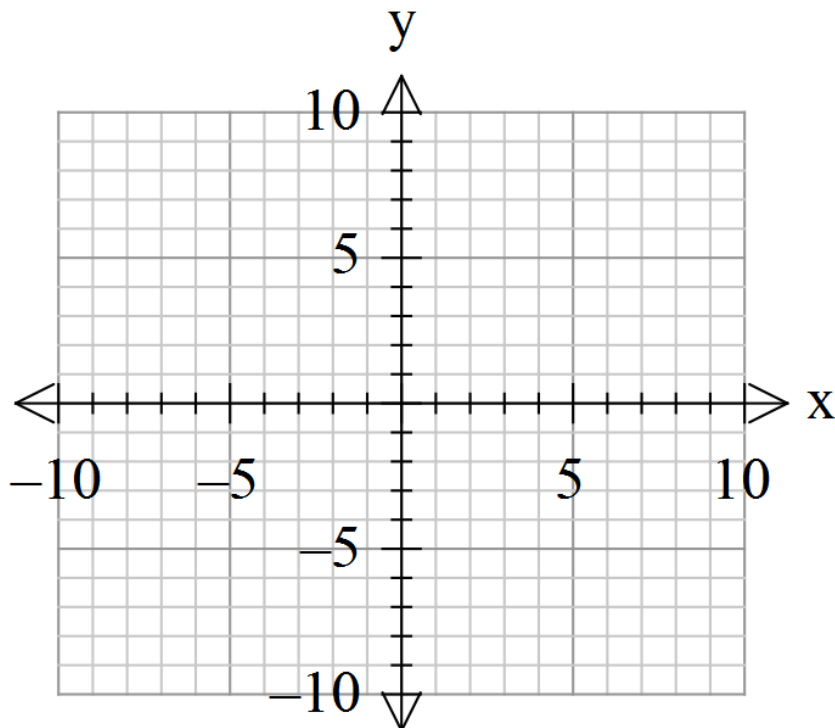
a) Evaluate $f(2)$

b) Evaluate $f(3)$

c) Evaluate $f(-1)$

d) Plot the points and graph the line on the Cartesian Plane below.

(hint: if they do not form a straight line then you've made a mistake!)



e) What is the y-intercept?

2. For the function: $f(x) = 4x + 5$

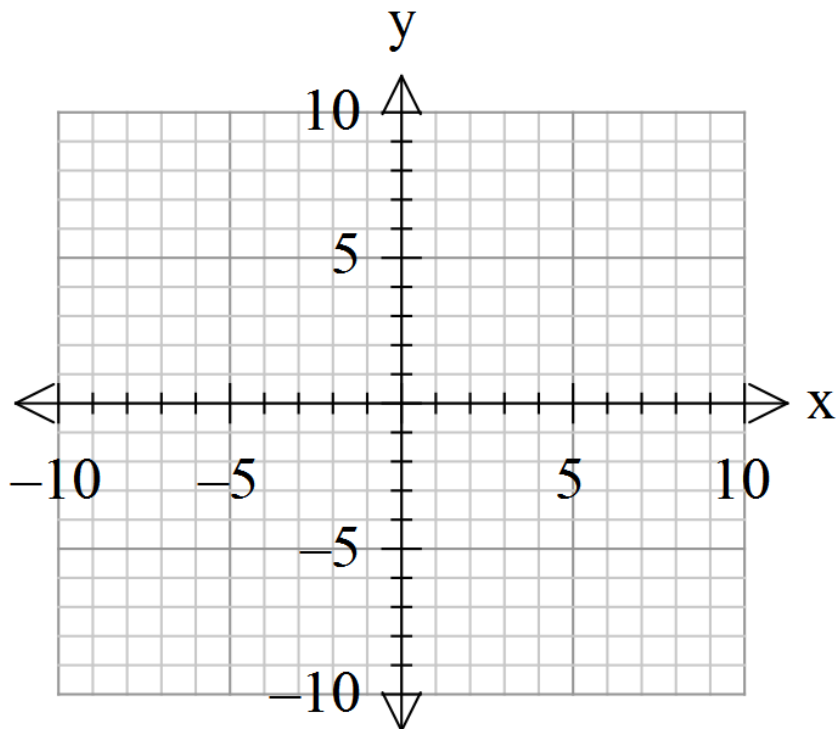
a) Evaluate $f(-2)$

b) Evaluate $f(-3)$

c) Evaluate $f(1)$

d) Plot the points and graph the line on the Cartesian Plane below.

(hint: if they do not form a straight line then you've made a mistake!)



e) What is the y-intercept?

3. For the function: $f(x) = 2x - 4$

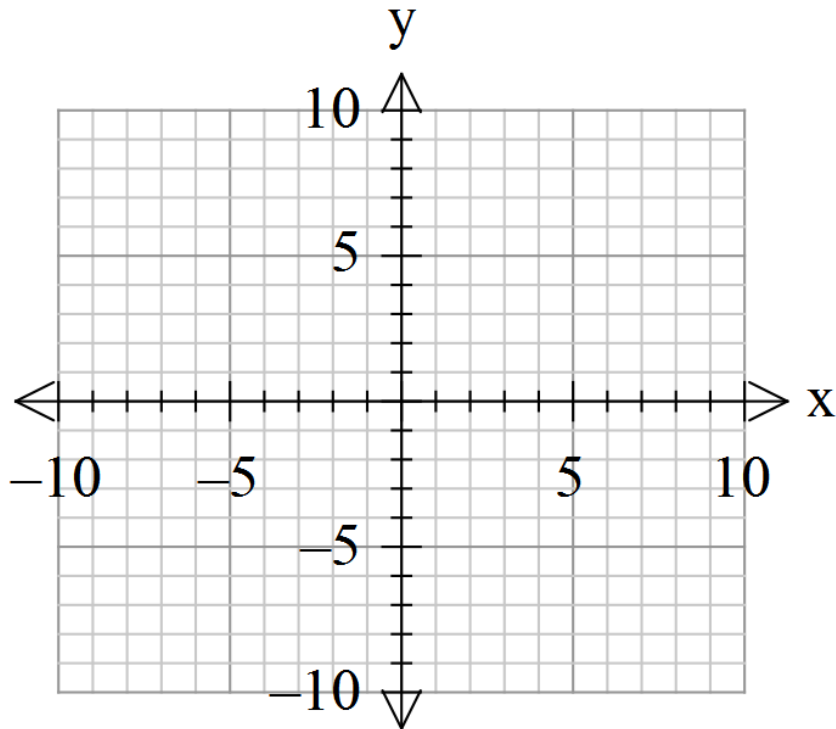
a) Evaluate $f(-2)$

b) Evaluate $f(-3)$

c) Evaluate $f(1)$

d) Plot the points and graph the line on the Cartesian Plane below.

(hint: if they do not form a straight line then you've made a mistake!)



e) What is the y-intercept?

4. For the function: $f(x) = -2x - 4$

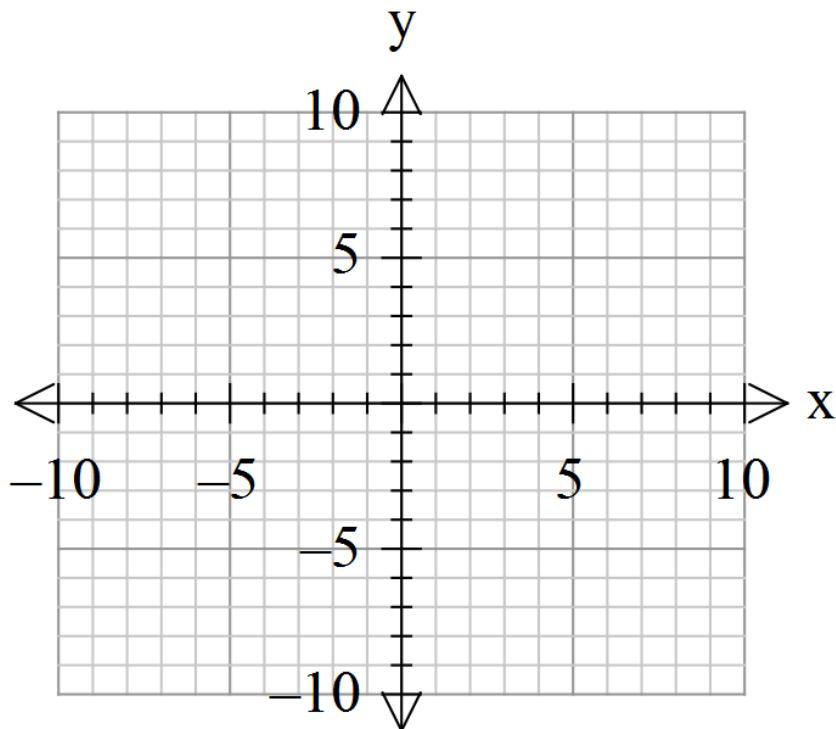
a) Evaluate $f(2)$

b) Evaluate $f(3)$

c) Evaluate $f(-1)$

d) Plot the points and graph the line on the Cartesian Plane below.

(hint: if they do not form a straight line then you've made a mistake!)



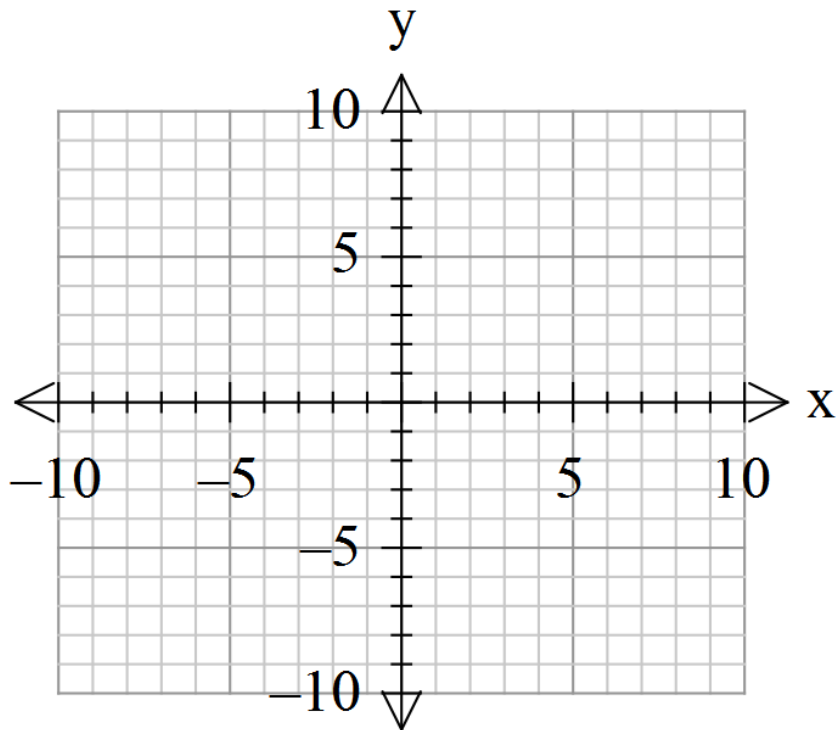
e) What is the y-intercept?

5. For the function: $f(x) = 3x - 9$

a) Determine the y-intercept.

b) Determine the x-intercept.

c) Plot the points and graph the line on the Cartesian Plane below.



List the following properties:

Positive:

Increasing:

Negative:

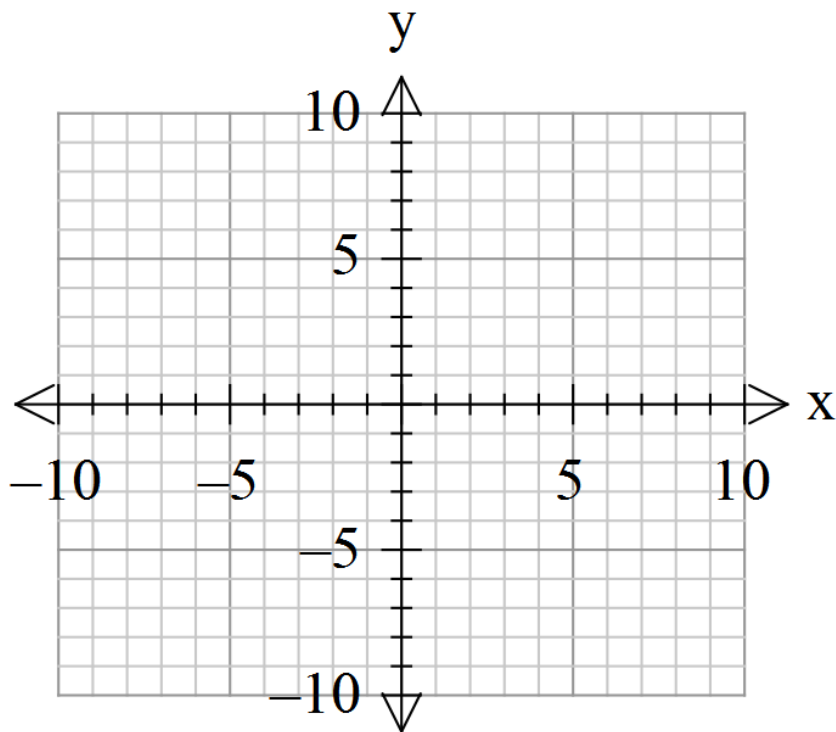
Decreasing:

6. For the function: $f(x) = -3x + 9$

a) Determine the y-intercept.

b) Determine the x-intercept.

c) Plot the points and graph the line on the Cartesian Plane below.



List the following properties:

Positive:

Increasing:

Negative:

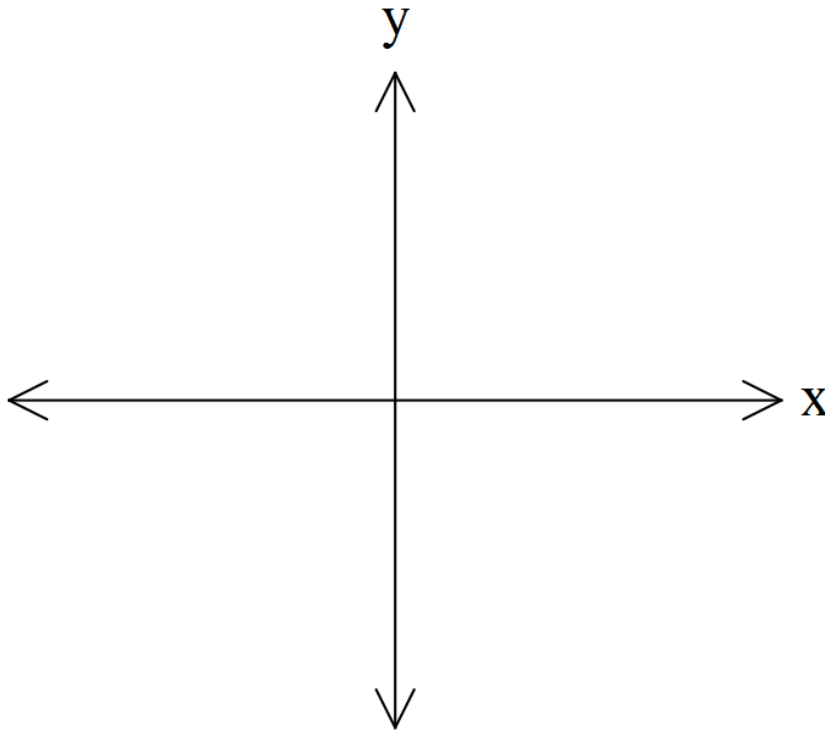
Decreasing:

7. For the function: $f(x) = -x + 5$

a) Determine the y-intercept.

b) Determine the x-intercept.

c) Using the intercepts, sketch the line on the axes below.



List the following properties:

Positive:

Increasing:

Negative:

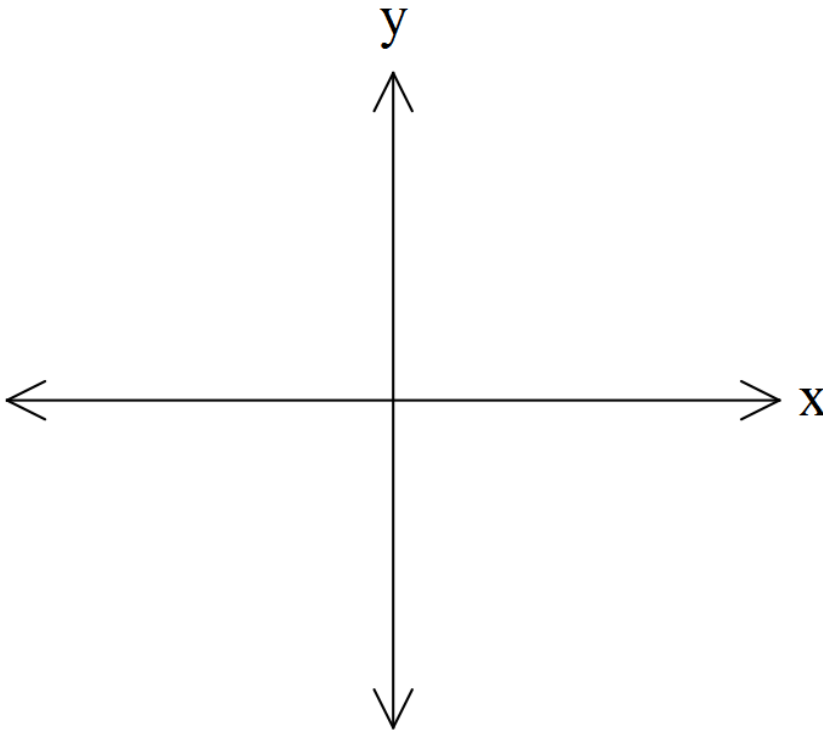
Decreasing:

8. For the function: $f(x) = x + 5$

a) Determine the y-intercept.

b) Determine the x-intercept.

c) Using the intercepts, sketch the line on the axes below.



List the following properties:

Positive:

Increasing:

Negative:

Decreasing: