Graphing Linear Functions Name: _____

Part 2 – Slope intercept and sketching

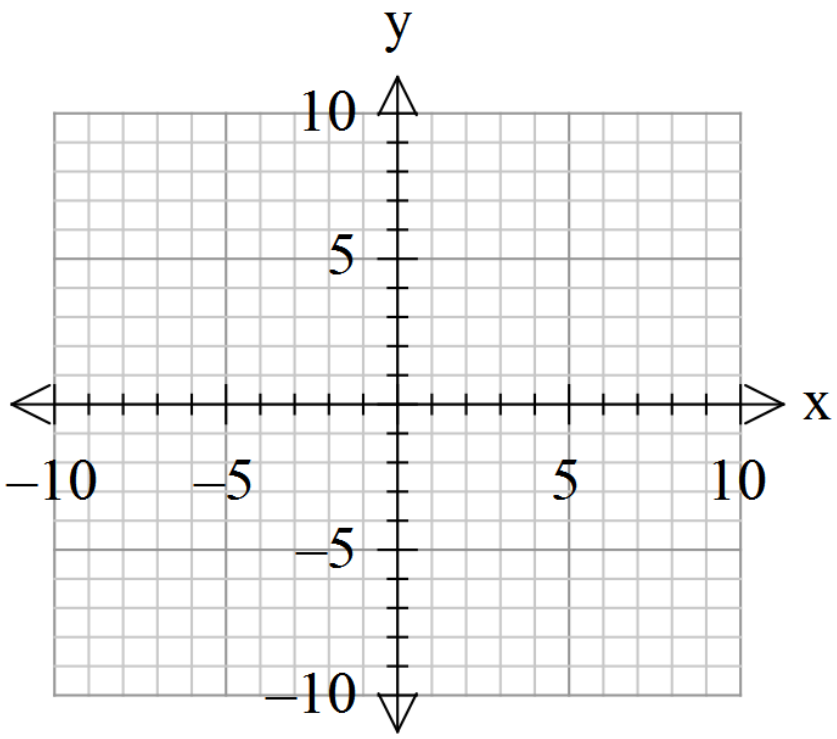
1. For the function: $f(x) = -\frac{4}{3}x + 5$

a) What is the slope?

b) Will the line be increasing or decreasing?

c) What is the y-intercept?

d) Use the y-intercept and slope (RISE over RUN) to graph the line on the Cartesian Plane below.



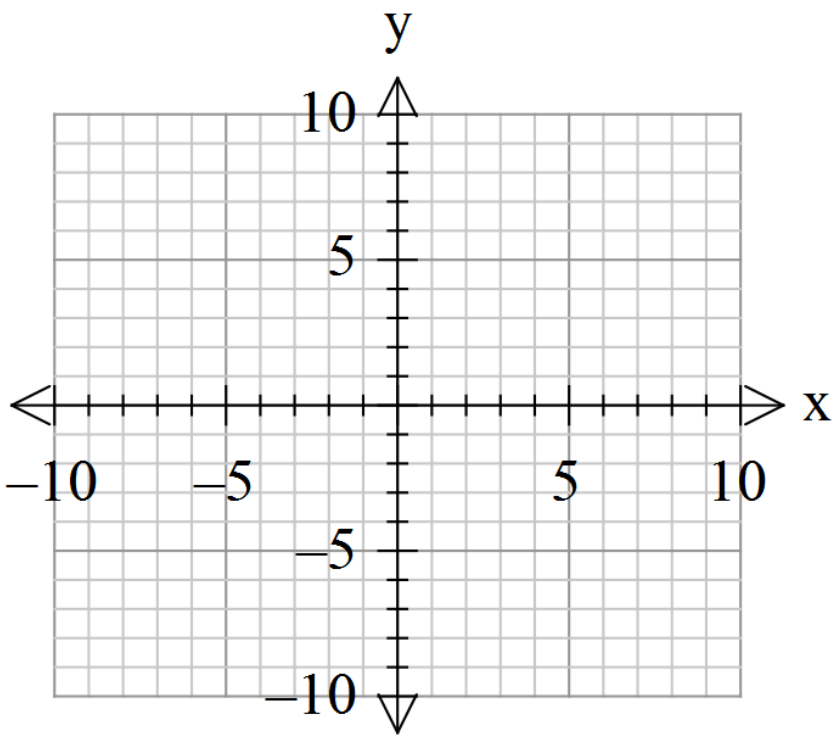
2. For the function: $f(x) = \frac{3}{2}x - 4$

a) What is the slope?

b) Will the line be increasing or decreasing?

c) What is the y-intercept?

d) Use the y-intercept and slope (RISE over RUN) to graph the line on the Cartesian Plane below.



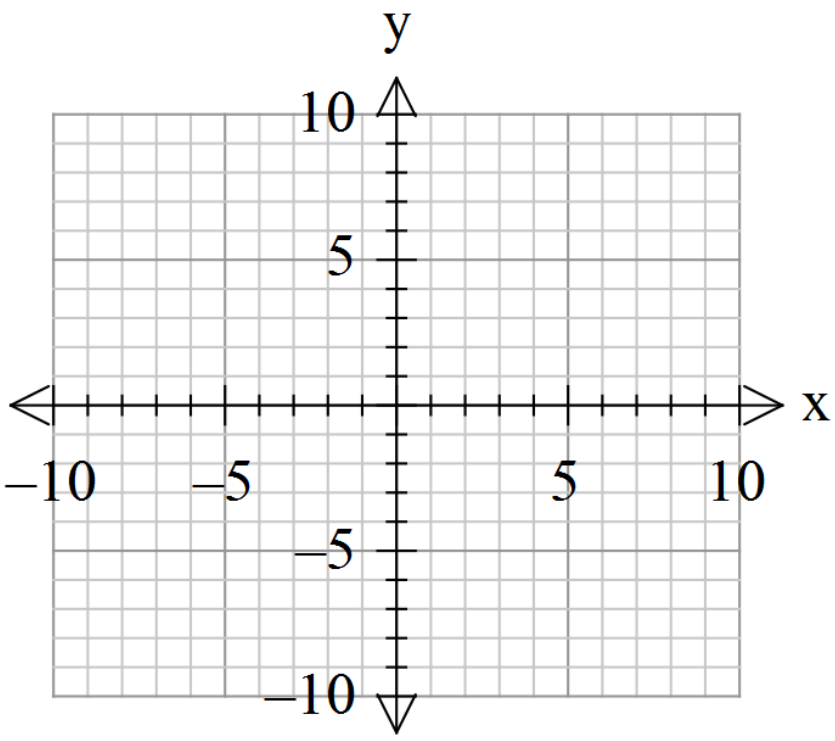
3. For the function: $f(x) = 3x - 8$

a) What is the slope?

b) Will the line be increasing or decreasing?

c) What is the y-intercept?

d) Use the y-intercept and slope (RISE over RUN) to graph the line on the Cartesian Plane below.



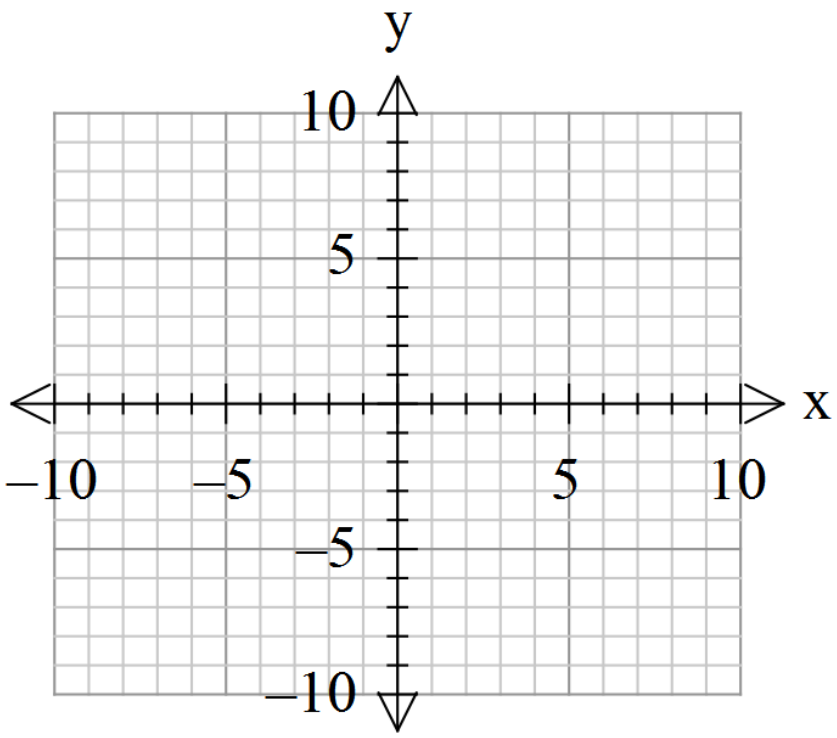
4. For the function: $f(x) = -4x + 8$

a) What is the slope?

b) Will the line be increasing or decreasing?

c) What is the y-intercept?

d) Use the y-intercept and slope (RISE over RUN) to graph the line on the Cartesian Plane below.



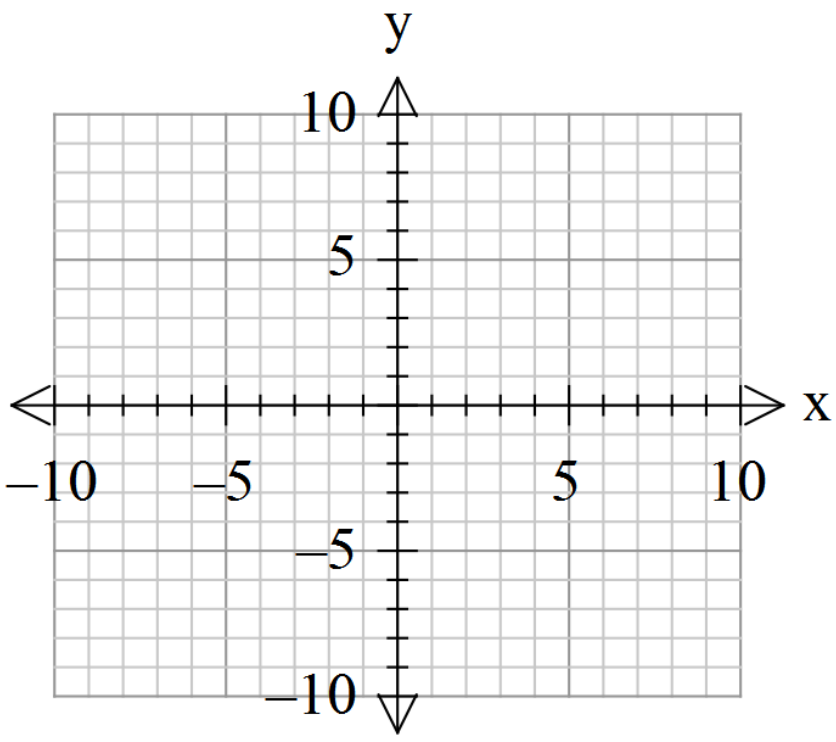
5. For the function: $f(x) = -\frac{1}{3}x - 6$

a) What is the slope?

b) Will the line be increasing or decreasing?

c) What is the y-intercept?

d) Use the y-intercept and slope (RISE over RUN) to graph the line on the Cartesian Plane below.



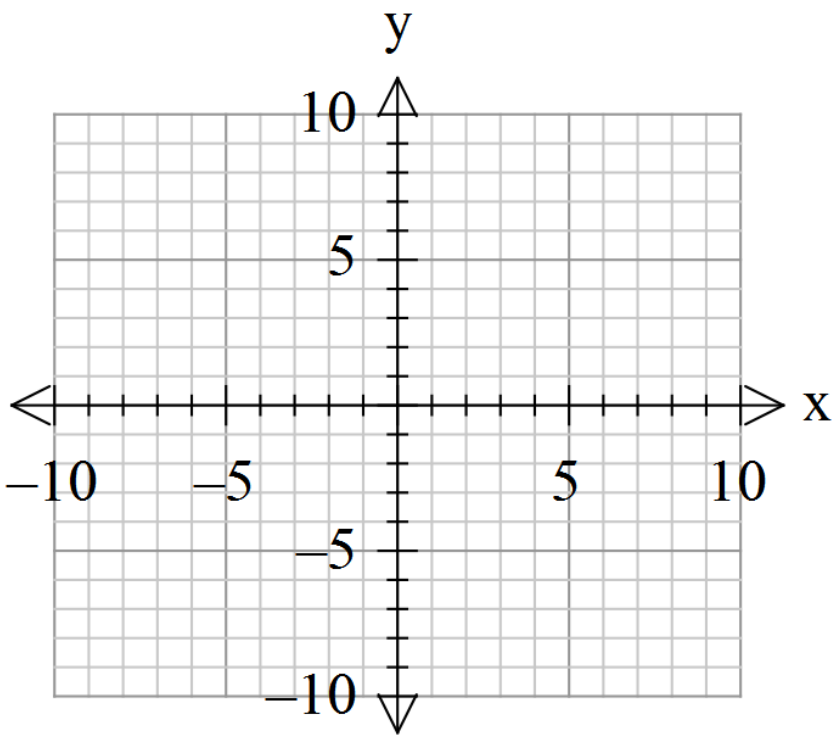
6. For the function: $f(x) = 5x + 7$

a) What is the slope?

b) Will the line be increasing or decreasing?

c) What is the y-intercept?

d) Use the y-intercept and slope (RISE over RUN) to graph the line on the Cartesian Plane below.

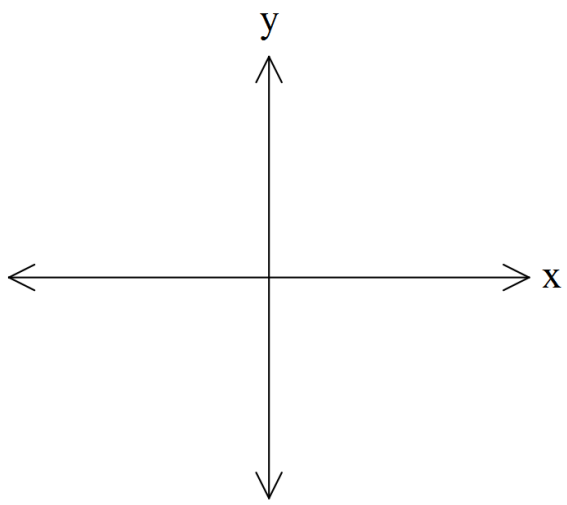


7. For the function: $f(x) = -2x - 5$

y-intercept?

Increasing or decreasing?

Sketch:

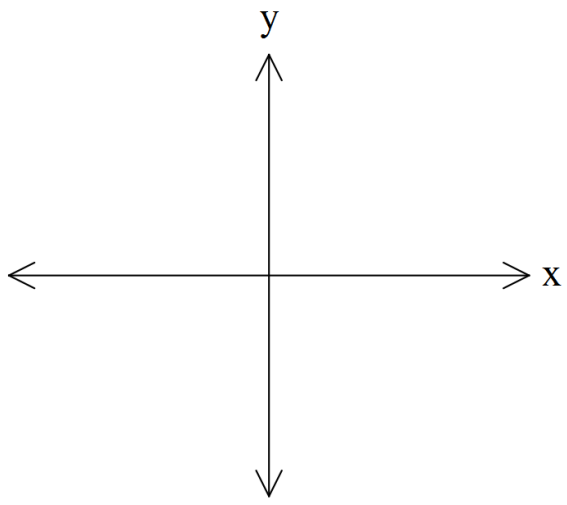


8. For the function: $f(x) = \frac{1}{8}x + 5$

y-intercept?

Increasing or decreasing?

Sketch:

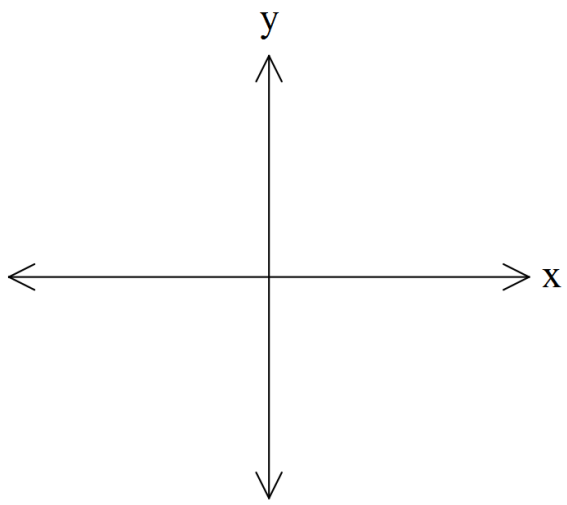


9. For the function: $f(x) = -\frac{4}{7}x - 5$

y-intercept?

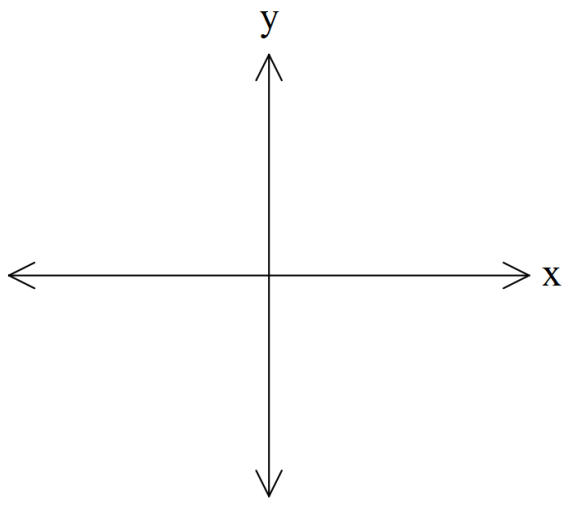
Increasing or decreasing?

Sketch:



10. For the function: $f(x) = \frac{3}{4}x$

y-intercept?

Increasing or decreasing?

Sketch: