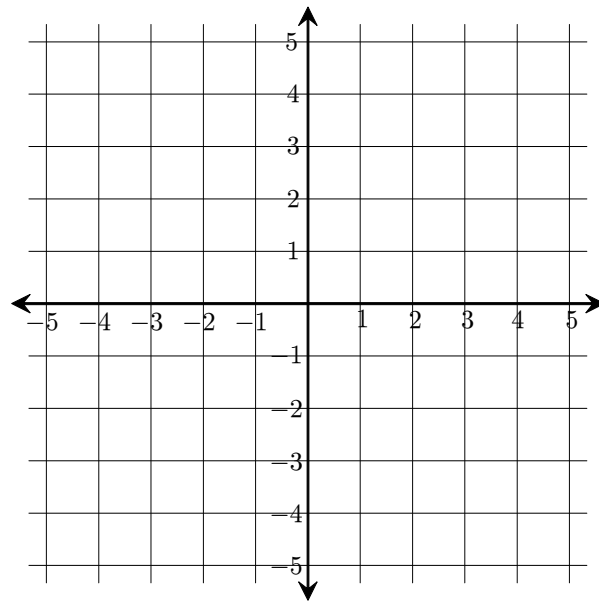


Algebra Workshop

Name: _____

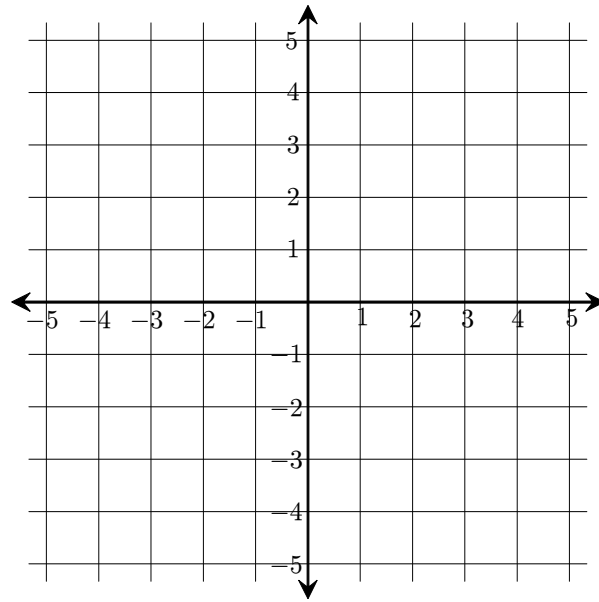
Worksheet 8

1. (a) Plot the points $(1,0)$ and $(3,4)$ on the following coordinate plane. Draw the line through these points.



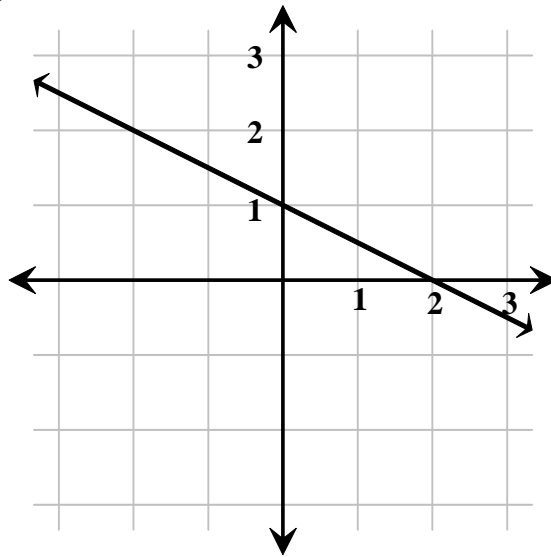
- (b) Find the slope of the line.
- (c) Find the equation for the line.
- (d) What is the y -intercept of the line (that is, where does the line cross the y -axis)?
- (e) What is the x -intercept of the line (that is, where does the line cross the x -axis)?

2. (a) Plot the points $(-2, -4)$ and $(1, 5)$ on the following coordinate plane. Draw the line through these points.



- (b) Find the slope of the line.
- (c) Find the equation for the line.
- (d) What is the y -intercept?
- (e) What is the x -intercept of the line?

3. Consider the following line:



(a) What is the slope of the line?

(b) What is the y -intercept of this line?

(c) What is the x -intercept of the line?

(d) What is the equation for the line?

4. Find the equations for the lines through the given points:

(a) $(2, 1)$ and $(4, 7)$

(b) $(3, 7)$ and $(4, 9)$

(c) $(3, 4)$ and $(7, 4)$

(d) $(-1, 3)$ and $(-1, 8)$