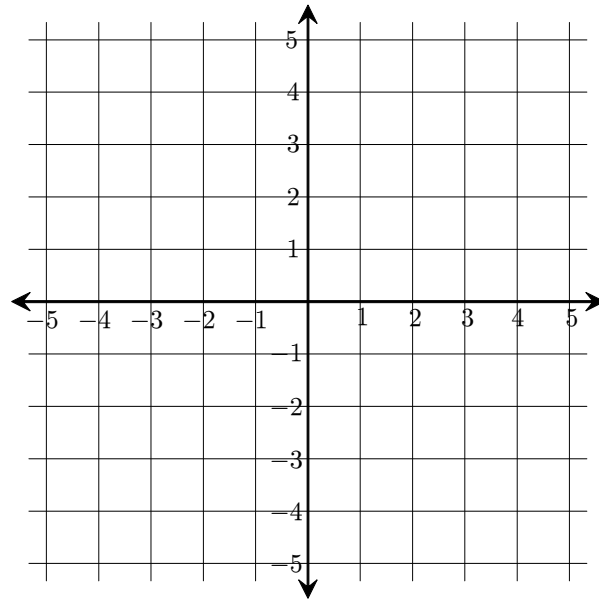


Algebra Workshop

Name: _____

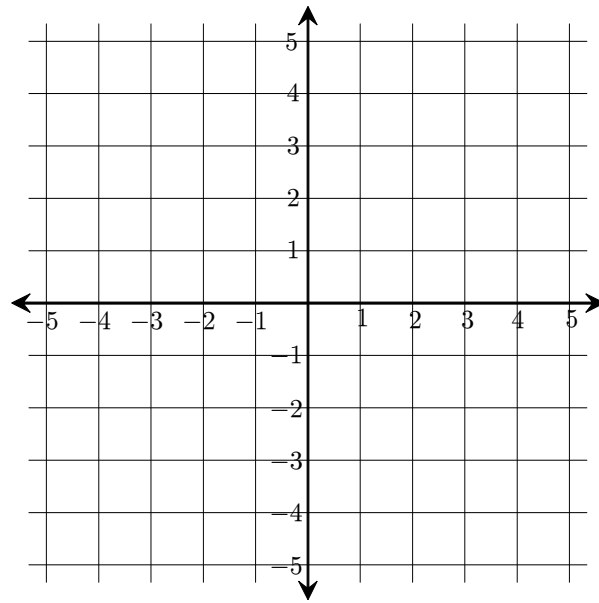
Homework 6

1. (a) Plot the points $(-3, -5)$ and $(2, 5)$ 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?

2. (a) On the following coordinate plane, draw the line with slope $m = \frac{1}{2}$ through the point $(2, -1)$.



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

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

(a) $(-1, -3)$ and $(1, 5)$

(b) $(2, 4)$ and $(4, 5)$

(c) $(1, 5)$ and $(1, -3)$

(d) $(-3, 4)$ and $(-5, 4)$

4. Consider the line $5x + 3y = 9$.

(a) What is the slope of this line?

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

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