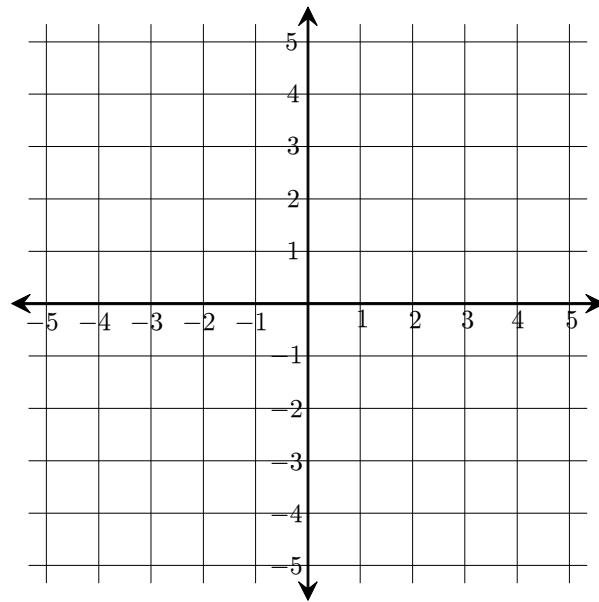


# Algebra Workshop

Name: \_\_\_\_\_

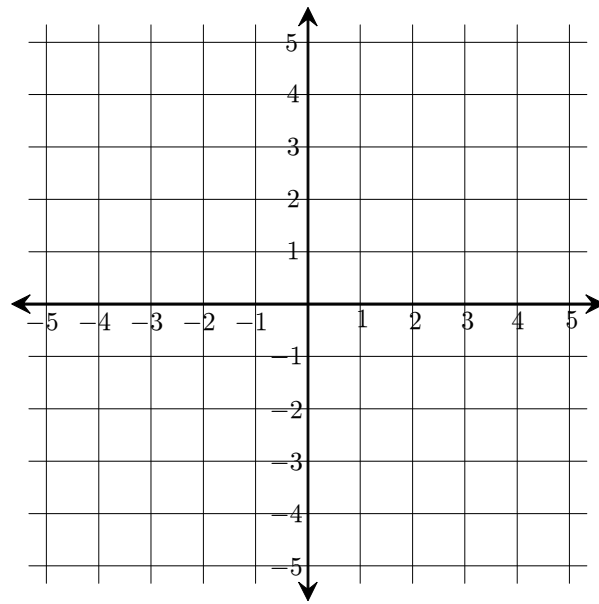
## Worksheet 7

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



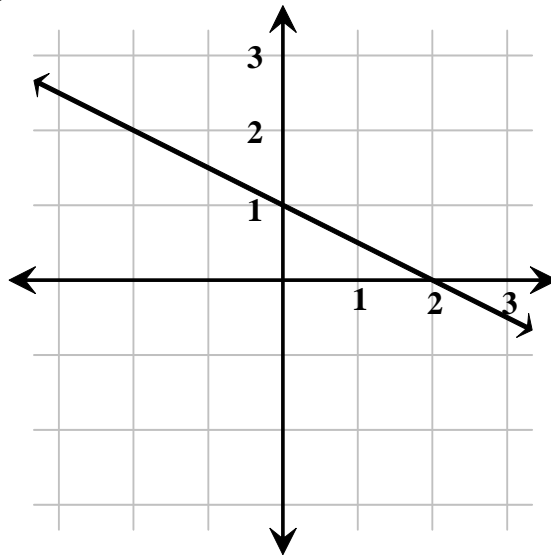
- (b) Find the slope of the line.
- (c) Find the equation for the line.
- (d) What is the  $y$ -intercept of the line (that is, where does the line cross the  $y$ -axis)?
- (e) What is the  $x$ -intercept of the line (that is, where does the line cross the  $x$ -axis)?

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  $(-1, 8)$