Find the slope of the lines in the drawing. Let each square be one unit. (Hint: Draw a right triangle and make a step.) Write as a fraction in simplest form.

1. Line A: Slope = \_\_\_\_\_\_\_\_\_\_

 **A**

1. Line B: Slope = \_\_\_\_\_\_\_\_\_\_

Line C

1. Line C: Slope = \_\_\_\_\_\_\_\_\_\_

 B

**Find the slope of the line that passes through the following two points.**

**Show your work. Reduce your answers if necessary.**

4. (3,-6) and (12,-9) 5. (0,-2) and (-7,6)

6. (1, 2) and (-2, 5) 7. (4, -2) and (6, 4)

**Find the slope and y-intercept, and graph the line.**

8.  9. 

slope = \_\_\_\_\_ slope = \_\_\_\_\_

y-intercept = \_\_\_\_\_ y-intercept = \_\_\_\_\_

**For each line, identify the slope and y-intercept, then write the equation of the line.**

10. Line **A**: Slope = \_\_\_\_\_\_\_\_\_\_\_\_

 y-intercept =\_\_\_\_\_\_\_\_\_

Line A

 equation=\_\_\_\_\_\_\_\_\_\_\_

11. Line **B**: Slope = \_\_\_\_\_\_\_\_\_\_\_\_

 y-intercept =\_\_\_\_\_\_\_\_\_

 equation=\_\_\_\_\_\_\_\_\_\_\_

Line C

12. Line **C**: Slope = \_\_\_\_\_\_\_\_\_\_\_\_

 y-intercept =\_\_\_\_\_\_\_\_\_

Line B

 equation=\_\_\_\_\_\_\_\_\_\_\_\_

**Write the equation of the line between the two points.**

13. (-7,3) and (7,9) 14. (-8,2) (4,5)

**Write the equation of the line given the slope and a point on the line.**

15. m = 5 (6, -2) 16. $m=\frac{3}{2}$ (-8, 7)

**Solve for the variable.**

17.  18. 