Name_____

Geometry summer assignment

The following topics necessary for geometry. Complete each example to assure you are ready for the class. I will be using your work as a pre-test and will be giving you another test within the first two weeks of school.

- Solve for an unknown variable
- Solve systems of equations
- Graph a line
- add/subtract/multiply/divide fractions
- Find the distance between two points
- Solve proportions with variables
- Find slope of line from two points
- Find the midpoint between two points

Complete the indicated operation.

a. $1\dfrac{2}{3} + 5\dfrac{6}{21} =$

b. $4\dfrac{2}{5} - 2\dfrac{4}{7} =$

c. $\dfrac{2}{5} \cdot \dfrac{4}{7} =$

d. $\dfrac{2}{5} \div \dfrac{2}{9} =$

Solve for the unknown variable

a. $3x - 4 = 11$

b. $\dfrac{x}{4} = 1$

c. $\dfrac{x-1}{2} = 10$

Solve the following systems.

a. $-4x - 2y = -12$
$4x + 8y = -24$

b. $2x - 3y = -1$
$y = x - 1$

Find the distance between the points.

a. (2,9)(0,3)   b. (-2,3)(4,7)   c. (4,5)(1,4)

Find the midpoint between the given points.
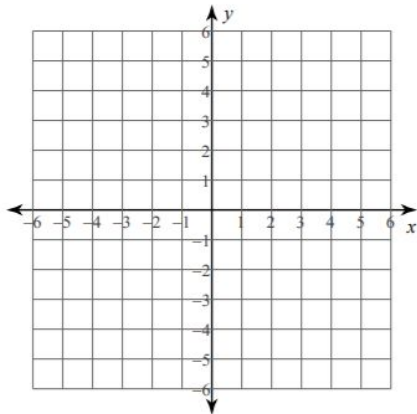
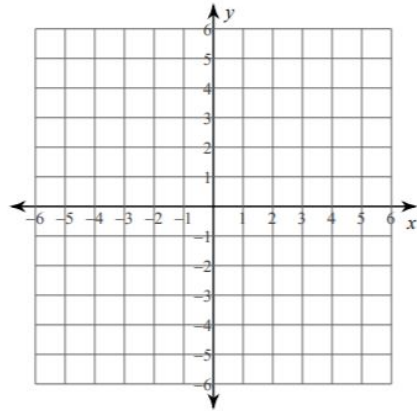a. (4,5)(8,-2)   b. (10,3)   c. (5,13)(2,6)

Graph the following lines;

1) $y = \frac{7}{2}x - 2$

2) $3x + 5y = -5$

Find the slope of the line.

3)

1) $(19, -16), (-7, -15)$

2) $y = -\frac{4}{3}x - 1$