

Algebra 2 Summer assignment

The following topics necessary for algebra 2. 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.

- add/subtract/multiply/divide fractions
- Solve 1 and 2 step equations
- Long division
- Solve multi-step pemdas
- Add/subtract/multiply/divide integers
- Graph a line with a table of values and an equation
- Develop an equation of a line between two points
- Solve a system of equation in two variables
- Write an equation in standard and slope-intercept form
- Solve proportions with variables

Complete the indicated operation.

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

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

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

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

Solve for x

a. $3x - 4 = 11$

b. $\frac{x-1}{2} = 10$

Use long division to solve the following (show your work).

a. $3250 \div 26 =$

b. $0.0828 \div 0.36 =$

Complete the indicated operation with integers.

a. $6 + (-9) =$

b. $-10 - (-11) =$

c. $-10 \div (-5) =$

d. $\frac{-60}{15} =$

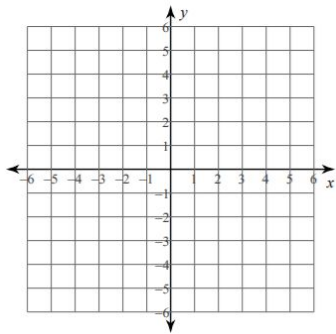
Solve the following proportions

a. $\frac{3}{x} = \frac{15}{5}$

b. $\frac{6}{b-1} = \frac{9}{7}$

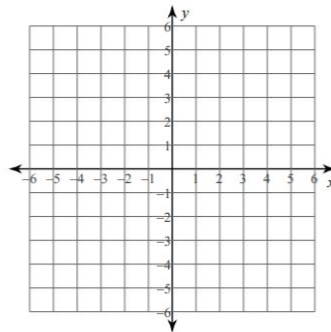
Graph the following

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



Use a table of values

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



Develop an equation between the given points.

$(-5, 2)(5, -4)$

Write the equation in standard form; $y = 10x - 2$

State the slope of each line.

a. $(2, 9)(8, 2)$

b. $7x + y = 5$

c. $y = -\frac{4}{3}x - 1$