

Name

9/6/16 or 9/7/16

Alg I

Rewrite Equations and Formulas

I can rewrite equations and formulas.

Literal Equation: Equation where the coefficients and constants have been replaced by letters.

Ch. 2 Quiz 9/21

or 9/22 Ch. 1/2

Test 9/23 or 9/26

Example 1:

$$a=12 \quad b=5 \quad c=-3$$

$$X = \frac{-3-12}{-5} = \frac{-15}{-5}$$

$$\boxed{X=3}$$

1) $a - bx = c$

$$\begin{array}{r} -a \quad -a \\ -bx = c - a \\ -b \quad -b \end{array}$$

$$X = \frac{c-a}{-b}$$

2) $ax = bx + c$

$$a=11 \quad b=6 \quad c=20$$

$$X = \frac{20}{11-6} = \frac{20}{5}$$

$$\boxed{X=4}$$

$$\begin{array}{r} -bx \quad -bx \\ ax - bx = c \\ x(a-b) = c \\ a-b \quad a-b \end{array}$$

$$X = \frac{c}{a-b}$$

$$X = \frac{c}{a-b}$$

Example 2:

3) $5x + 4y = 20$

$$\begin{array}{r} -5x \quad -5x \\ 4y = -5x + 20 \\ 4 \quad 4 \quad 4 \end{array}$$

$$\boxed{y = \frac{-5}{4}x + 5}$$