

Period

Day 7

Target: Rewrite equations and formulas.

Let's start with what you already know!!

$$x-10=5$$

You were able to add 10 and 5 because they are LIKE TERMS

What if they aren't? Solve for x in the following:

$$x - y = 5$$

$$\chi = 5 + \gamma$$



For each of the following, solve for y.

$$7 + y = 8$$

$$6 = 3y - 4$$

$$\frac{10}{3}$$
 = y

$$-\frac{10-2y=6_{+1}}{27}=\frac{16}{2}$$

$$\sqrt{=-8}$$

Write the equation so that y is a function of x (This means solve for y!) M isolate y

D. 
$$2x + y = 8$$

E. 
$$x = 3y - 4$$

$$y = -2x + 8$$
  $\frac{1}{3}x + \frac{4}{3} = y$ 

Write the equation so that x is a function of y (This means solve for x!)

$$G. \quad 2x + y = 8$$

$$2x + y = -4$$

$$\frac{2X = -H - Y}{2}$$

l.

$$-x-3y=18$$
  
 $-3y=18+1x$   
 $-3y=3=3=3$ 

$$y = -\frac{1}{3}x - 6$$

$$-x - 3y = 18$$

$$-x = 18 + 3y$$

$$x = -18 - 3y$$

## Literal Equations as formulas:

1) Solve for C: 
$$P = R \bigcirc C$$
  
-R -R

2) Solve for m: 
$$F = ma$$

$$F = ma$$

3) Solve for r: 
$$I = \underbrace{Prt}_{Pt}$$

$$\frac{1}{Pt} = r$$

4) Solve for x: 
$$ax - by = c$$
 $by + by$ 

$$ax = c + by$$

$$x = c + by$$

$$x = c + by$$

5) Solve for x: 
$$4x - \frac{1}{5}y = 16$$
  
 $\frac{4x}{4} = \frac{16}{4} + \frac{1}{5}y$ 

$$X=4+\frac{1}{20}Y$$

6) Solve for x: 
$$3x - \frac{1}{4}y = -12$$

$$3x = -12 + \frac{1}{4}y$$

$$x = -14 + \frac{1}{12}y$$

7) 
$$S = \frac{GrK}{4}$$
; Solve for K.

$$\frac{4s}{Gr} = K$$

8) 
$$R = \frac{8yz}{\cancel{a}}$$
; Solve for y.

$$\frac{Ra = 8YZ}{8Z}$$