OCTOBER 17, 2011

1. 
$$-3x + 4 = -5$$

$$a) -3$$

- 27 d)

2. 
$$-10 = -8 + \frac{m}{4}$$
 $a) -72$ 

$$a) -72$$

$$d) -2$$

3. 
$$18 = 6 - 4y$$

$$a$$
)  $-3$ 

$$(c)$$
 -6

$$\frac{-3x=-9}{-3}$$

# GET OUR YOUR HOMEWORK FROM THURSDAY LAVENDAR WORKSHEET #1-20

## Questions??

3) 
$$82 = -6x - 2$$

10/17 - Solving Equations with Variables on Both Sides



Whatever you do to one side, you MUST do to the other.

#### Remember:

Same sign
Add and
Keep the sign
Different signs
Subtract and
Keep the sign of
the biggest #

#### Remember:

$$5x + 4 = 2x + 8$$
 $-2x$ 
 $3x + 4 = 8$ 
 $-4$ 
 $3x = 4$ 
 $3x = 4$ 
 $3x = 4$ 

Solve the equation:

$$-3n+6 = -8n+21 + 8n + 6 = 21 + 6 = 21 -6 + 6 = 3$$

$$5n+6 = 21 -6$$

$$5n = 15$$

$$N = 3$$

Steps:

- 1. Move variable to one side by add/subtract the whole term from both sides
- 2. Undo Add Subtract
  -opposite operation
  -Both sides
- 3. Undo Multiply
  -Divide on both sides

### Solve the equations:

$$2a-7 = -23-6a$$
+6a
 $8a-71 = -23$ 
 $+7$ 
 $8a = -16$ 
 $8 = -2$ 

$$-8+2k=16-4k$$
 $-8+6k=16$ 
 $+8$ 
 $+8$ 
 $6k=24$ 
 $6k=4$ 

$$15 - 4y = 3y - 6$$

$$-3y - 3y$$

$$15 - 7y = -6$$

$$-15$$

$$-15$$

$$-17y = -21$$

$$-4$$

$$-7$$

$$-7$$

# **HOMEWORK:**

LIME WORKSHEET
#1-24 &LL

DUE TUESDAY (TOMORROW)

$$69 - 9 + 3m = 1 + 4m - 3m$$

$$-9 + 3m = 1 + m$$

$$\frac{24}{-11+6-6m-8m} = -6m-7m$$

$$-5-14m = -13m$$

$$-14m + 14m$$

$$-5 = m$$