#### Today's Plan:

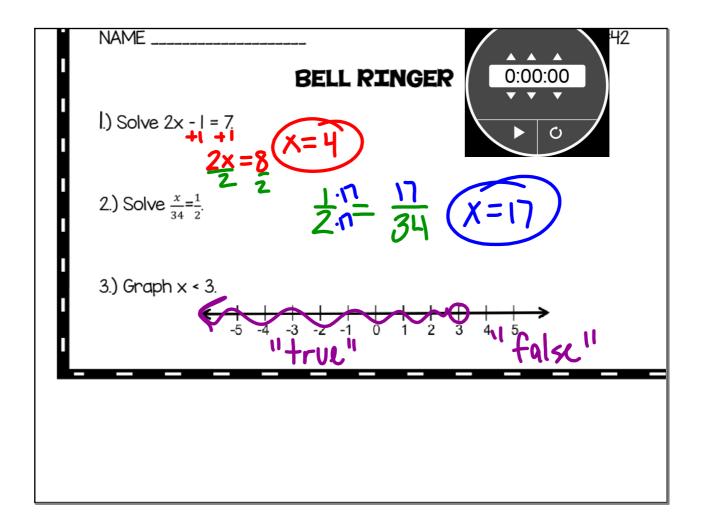
**Learning Target (standard)**: I will graph lines using the slope-intercept method. I will write the equations for lines.

**Students will**: Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work, take notes over new material and complete practice problems over new concepts.

**Teacher will**: Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide examples of new concepts and assign students assessment problems over new concepts.

**Assessment**: Board work, homework check and homework assignment

**Differentiation**: Students will work at the board, go over and correct homework at their seats, actively engage in lecture over new concepts, practice new concepts with the aid of other students and the teacher and complete homework assignment.



## Find the equation for the line. Write in slope-intercept form and standard form.

5) passes through: (-5,4); slope = 
$$\frac{1}{5}$$

1) slope-intercept (2) standard

 $y=Mx+b$ 
 $4=\frac{1}{5}(-5)+b$ 
 $4=-1+b$ 
 $5=\frac{1}{5}x+5$ 
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7) passes through: 
$$(-1,-1)$$
 &  $(3,0)$ 

1)  $M = \frac{1}{2} - \frac{1}{1} = \frac{0+1}{3+1} = \frac{1}{4}$ 

2) Shape-intercept  $y = Mx + b$ 
 $y = Mx + b$ 
 $y = \frac{1}{4}$ 

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#### Find the equation for the line. Write in slope-intercept form and standard form.

9) passes through: (-2,2) & (5,2)

$$0 = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - 2}{5 + 2} = \frac{0}{7} = \frac{\text{rise}}{\text{run}}$$

$$M = 0$$

$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

Find the equation for the line. Write in slope-intercept form and standard form.

passes through: (-1,3) and (2,5)

1) 
$$M = \frac{1}{2} - \frac{1}{1} = \frac{5 \cdot 3}{2} = \frac{2}{3}$$
 $M = \frac{2}{3}$ 

2) Shox-intropt

 $y = mx + b$ 
 $3 = \frac{2}{3}(-1) + b$ 

3) Standard

 $y = \frac{2}{3}x + \frac{11}{3}$ 
 $y = \frac{2}{3}x + y = \frac{11}{3}$ 
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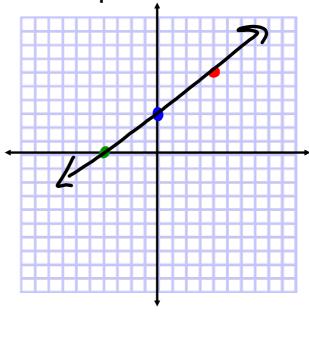
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passes through: 
$$(5.29)$$
  $m = und$ 

$$0 = \frac{\Delta y}{\Delta t} = \frac{\#}{L}$$

Graph using the slope-intercept method.

$$3x-4y=-12
-3x
-4y=-3x-12
-4y=-3x-12
-4y=-3x+3
y=-3x+3
y=-3x+3
y=-3x+3
y=-3x+3
y=-3x+3$$



Graph using the slope-intercept method.

$$-3y - 5 = 4 \\ + 5 + 5 \\ -3y = 9 \\ \hline -3 = 3$$
 
$$\Delta_{Y} = 0$$
 
$$\Delta_{Y} = 0$$
 
$$M = 0$$
 
$$\Delta_{Y} = 0$$

Find the equation for the line. Write in slope-intercept form and standard form.

$$m=-\frac{2}{3}$$

$$3[\frac{2}{3}x+y=-7]$$

$$|2x+3y=-2|$$

$$\sqrt{=mx+b}$$
  
-5=- $\frac{2}{3}(-3)+b$ 

# Find the equation for the line. Write in slope-intercept form and standard form.

passes through: (4,-3) and (4,6)

Find the equation for the line. Write in slope-intercept form and standard form.

passes through: (2,4) and (-5,3)

$$0 = \frac{12^{-1}1}{x_2 - x_1} = \frac{3 - 4}{-5 - 2} = -\frac{1}{7}$$

$$m = \frac{1}{7}$$

$$2 \text{ slope-in-trapt}$$

$$4 = \frac{1}{7}(2) + 6$$

$$7 = \frac{2}{7} + 6$$

$$28 = 2 + 76$$

$$26 = 76$$

$$-7 = -26$$

$$1 = \frac{1}{7}x + \frac{2}{7}$$

$$-7 = -26$$

$$1 = \frac{1}{7}x + \frac{2}{7}$$

### Assignment:

Equations for Lines 2 #1- 16

- \* Write the formula & Show ALL work \*
- \* Write in slope-intercept AND standard form \*