Today's Plan:

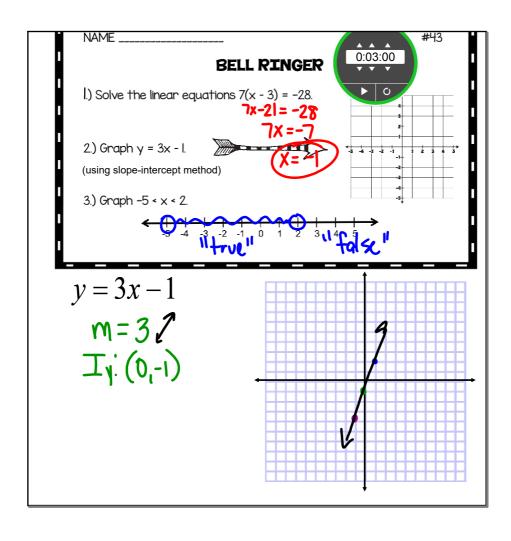
Learning Target (standard): I will graph lines using the slope-intercept method. I will write the equations for lines.

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.

8) passes through:
$$(-3,2)$$
; slope = $^2/_3$

Oslope-intercept

$$Y=mx+b$$

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

11) passes through: (-3,-3) & (2,3)

$$0 = \frac{12^{-1}1}{x_2 - x_1} = \frac{3 + 3}{2 + 3} = \frac{6}{5}$$

3 standard
$$y = \frac{1}{5}x + \frac{3}{5}$$

 $5 \left[-\frac{1}{5}x + y = \frac{3}{5} \right]$
 $\left[(0x - 5y = -3) \right]$

$$y=mx+b$$
 $3=\frac{12}{5}(2)+b$
 $5[3=\frac{12}{5}+b]$
 $15=12+5b$
 $3=5b$
 $b=\frac{3}{5}$

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

14) passes through: (-5,5) & (5,1)

$$0 M = \frac{1}{2} - \frac{1}{2} = \frac{1}{5} = \frac{4}{5}$$

$$m = -\frac{2}{5}$$
 2 slope-interact
 $y = mx + b$

3 standard

$$\frac{2}{5}x+y=3$$

| | (ft) | Time (min) |
|--------------|--------|------------|
| ○ · • | 30,000 | 0 |
| (1) indepe | 29,000 | 2 |
| depen | 27,500 | 5 |
| aupchi | 24,000 | 12 |

ndent-time (min) dent-elevation (ft)

2 RoC = Udipendent Dindependent

$$5 \text{ RoC} = -\frac{6000}{12} = -\frac{500f+}{1000}$$

@ Every minute the plane descends

Find the equation for the line.

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

$$2^{3}\left(y=\frac{2}{3}x\right)$$

$$\frac{-3y=2x}{2x-3y=0}$$
 standard

passes through:
$$(6,4)$$
 \bigcirc \bigvee = \bigvee \bigvee \bigvee \bigvee

(2,3)

$$\gamma = \frac{2}{3}\chi$$

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

$$M = \frac{1}{2} - \frac{1}{2}$$

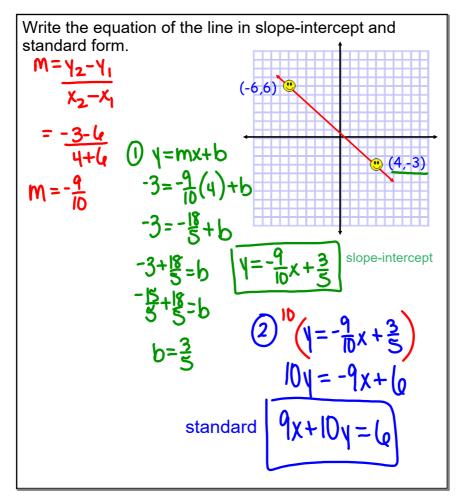
$$= \frac{3+5}{2+1}$$

$$= 8 \qquad 0 \text{ y=mx+b}$$

$$3 = \frac{4}{3}(2) + b$$

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

$$b = \frac{1}{3}$$



Graph using slope-intercept method:

$$1)2x - 4y = 8$$

$$2)5x + 6y = -24$$

$$3)4x-6=10$$

Slope-Intercept & Standard

Write the equation for the line:

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

5) passes through: (7,-3) and (4,1)

State the independent & dependent variables. Find the rate of change. Label units.

6) Andy can build three dog houses in eight hours and he can build 5 dog houses in fourteen hours.