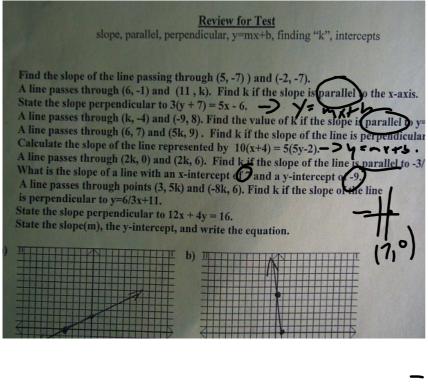
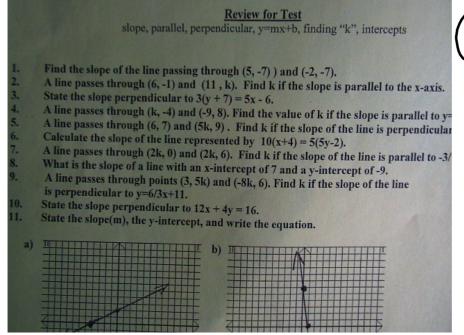
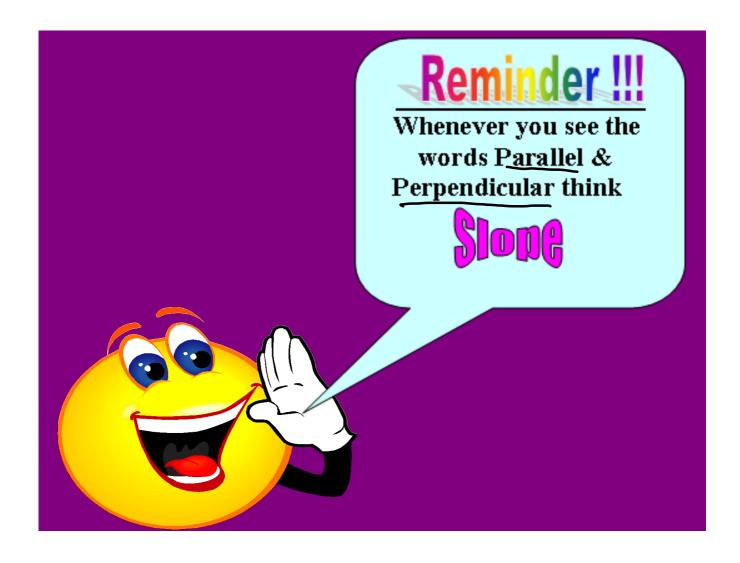


M=y2y1 M=-7-(-7) M=-7-7-7 M=-7-7 M=0-7 M=0





b) y=mx+b; 10(x+4)=5(5y-2) 101+40=65)-10 -25y=-10x-50 -25y=-10x-50 -25x-25 -25x-25 -25x-25 -25x-25 -25x-25

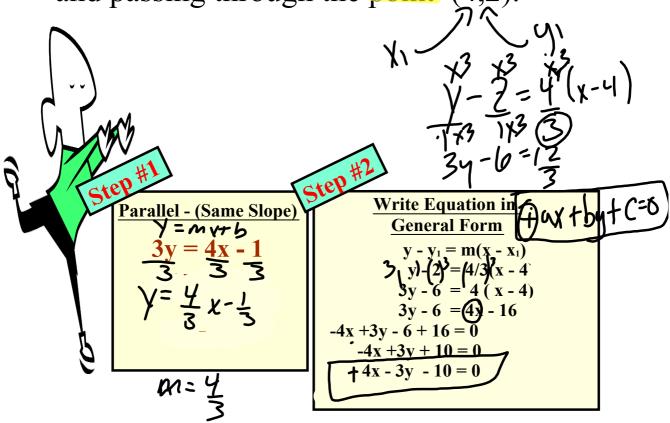




Warm Up Questions

- #1 Find the equation of a line parallel to 3y=4x-1 and passing through the point (4,2).
- #2 Determine the equation of a line perpendicular to 4x+5y=7 and having an x-intercept of -2.
- #3 Determine the equation of a horizontal line with a y-intercept of -3

Find the equation of a line parallel to 3y=4x-1 and passing through the point (4,2).



Determine the equation of a line perpendicular to 4x+5y=7 and having an x-intercept of -2.

(f) Changes 191

y=mx+b

Step# Opposite Reciprocal Slope

$$4x + 5y = 7$$

$$5y = -4x + 7$$

$$y = -4x + \frac{7}{5}$$

$$m = \frac{5}{4}$$

Point x-int (y = 0)

Step #? Write Equation in **General Form**

$$y - y_1 = m(x - x_1)$$

$$y - 0 = 5/4(x - 2)$$

$$y - 0 = 5/4(x + 2)$$

$$4y = 5(x + 2)$$

$$4y = 5x + 10$$

$$-5x + 4y - 10 = 0$$

Determine the equation of a horizontal line with a y-intercept of -3

 $\frac{1}{(x-x_1)}$

Horizontal Line

M: 0

Write Equation in General Form

$$y = mx + b$$

$$y = 0x - 3$$

$$y = -3$$

$$y + 3 = 0$$

Find the equation of a line parallel to MD and passing through U.

Parallel = Slape ()
$$m^2 = \frac{y^2 - y^1}{y^2 - x_1}$$
 (-2,-1) $\frac{y^2 - y^1}{x_1 + y_2 - x_1}$ (-2,-1) $\frac{y^2 - y^1}{x_1 + y_2 - x_1}$ (-1)= $\frac{y^2 - y^1}{x_1 + y_2 - x_1}$ (-1)= $\frac{y^2 - y^1}{x_1 + y_2 - x_1}$ (-2,-1) $\frac{y^2 - y^1}{x_1 + y_2 - x_1}$ (-1)= $\frac{y^2 - y^1}{x_1 + y_2 - x_1}$ (-2,-1) $\frac{y^2 - y^1}{x_1 + y_2 - x_1}$ (-1)= $\frac{y^2 - y^1}{x_1 + y_2 - x_1}$ (-2,-1) $\frac{y^2 - y^1}{x_1 + y_2 - x_1}$ (-1)= $\frac{y^2 - y^1}{x_1 + y_2 - x_1}$ (-2,-1) $\frac{y^2 - y^1}{x_1 + y_2 - x_1}$ (-2,-1) $\frac{y^2 - y^1}{x_1 + y_2 - x_1}$ (-1)= $\frac{y^2 - y^1}{x_1 + y_2 - x_1}$ (-2)= $\frac{y^2 - y^2}{x_1 + y_2 - x_1}$ (-2)= $\frac{y^2 - y^2}$

Homework for Tuesday Dec 16.

1,2,3ab,4ab,