$$y=mx+b$$
 (Slope intercept form)

 $ax+by+c=0$ (General form)

 $=x$: $4x+5y-10=0$ (General form)

 $=x$: $4x+5y-10=0$ (General form)

 $=x$: $y=-4x+0$
 $=x$: $y=-4x+0$
 $=x$: (Slope Intercept form)

Ex.
$$y = \frac{3}{3}x - 7$$
 (Slope Interapt tarm)
$$0 = \frac{3}{3}x + \frac{3}{7} + \frac{3}{7}$$
 Common denominator = 3
$$0 = 3x - 3y - 31$$
 (Seneral form)

Day Determine the equation of a line Parallel to Sy=10-3x and passing through (2,7)

O Determine Slope

$$\frac{5}{5} = \frac{-3x+10}{5}$$

$$y = -\frac{3}{5}x + \partial$$

$$M = -\frac{3}{5}$$

$$\int \mathbf{m} \mathbf{II} = \frac{3}{5}$$

Determine equation

$$y-7=\frac{-3}{5}(x-(-3))$$

$$y-7=-\frac{3}{5}(x+3)$$

$$y-7=-3x-6$$

$$y = \frac{-3x}{5} - \frac{6}{5} + \frac{7}{1}$$

$$y = -\frac{3}{5}x - \frac{6}{5} + \frac{35}{5}$$

(Slope Intercept) $y = \frac{-3}{5}x + \frac{29}{5}$

$$\frac{3}{5}x^{\frac{5}{4}}y^{\frac{5}{2}} = 0$$

(General Frm) 3x+5y-29=0

Equations of Lines

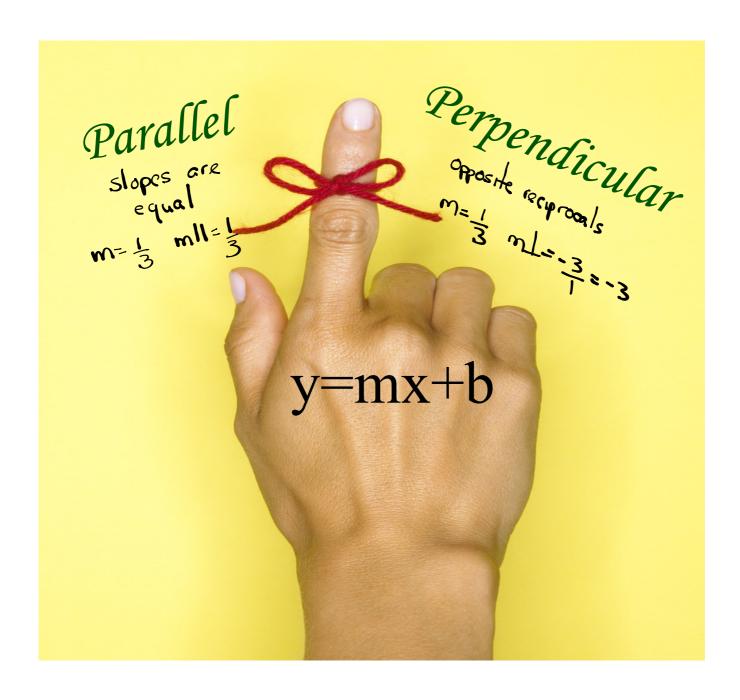
Kicking it up a notch!!

$$y - y_{1} = m(x - x_{1})$$

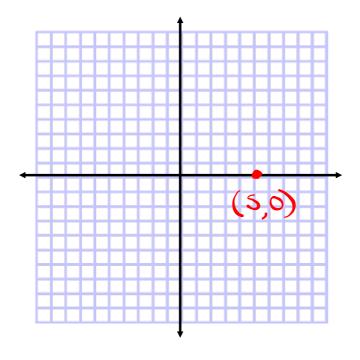
$$(x_{1}, y_{1}) = Roint$$

$$x = x$$

$$y = y$$









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

(Express your answer in point slope form please.)

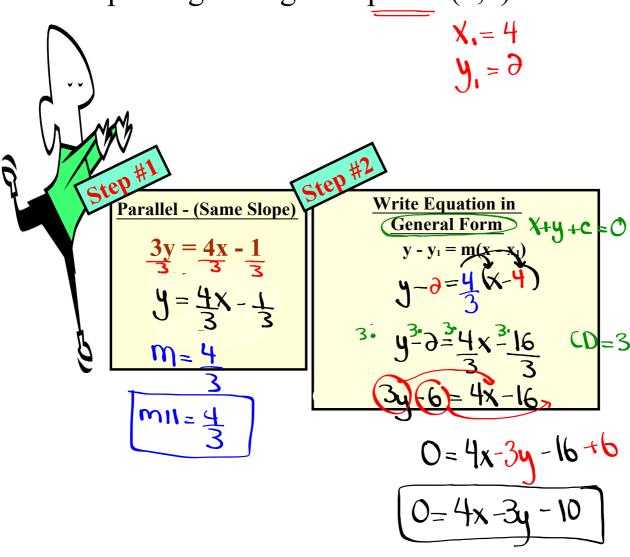
#2 Determine the equation of a line perpendicular to 4x+5y=7 and having an x-intercept of -2. (Express your answer in slope intercept form please.)

#3 Determine the equation of a horizontal line with a y-intercept of -3 (Express your answer in general form please.)

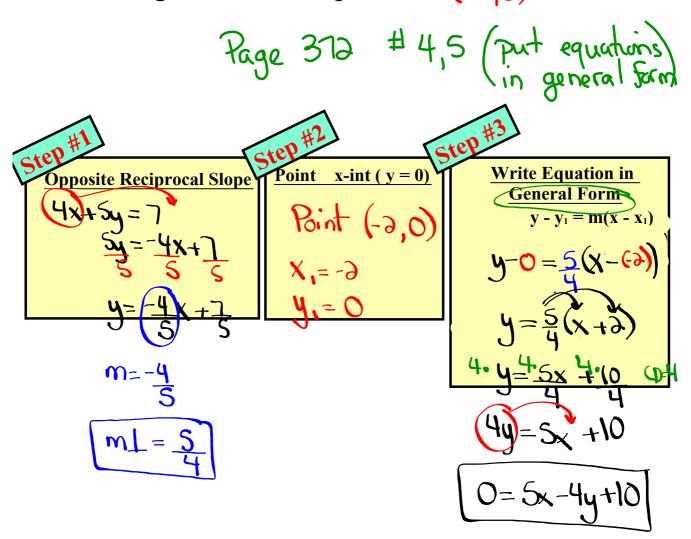


Check out the sheet.

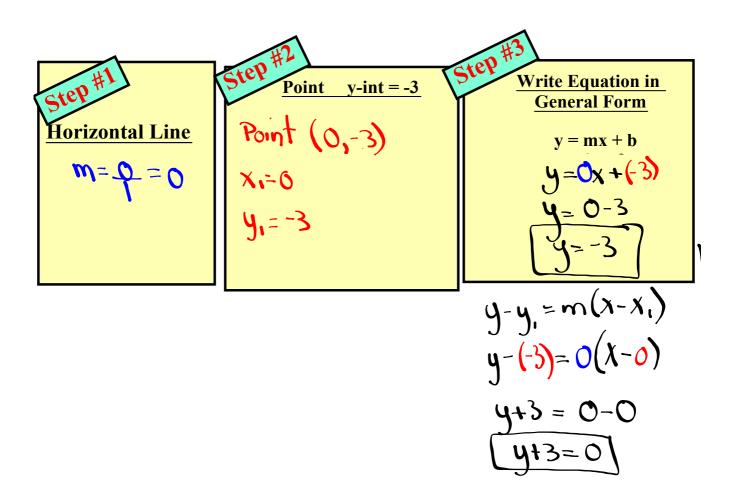
Find the equation of a line parallel to 3y=4x-1 and passing through the point (4,2).



Determine the equation of a line perpendicular to 4x+5y=7 and having an x-intercept of -2. (-3.0)



Determine the equation of a horizontal line with a y-intercept of -3 (0,-3)



M(3, 5) U(-2, -1) D(0, -4) Find the equation of a line parallel to MD and passing through U.