## Algebra & Trig - MATH 1450-02 - Quiz #4 - Jan 24, 2013

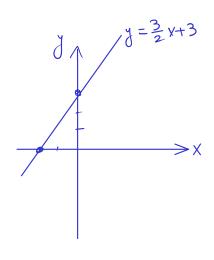
## Name:

For the line

$$3x - 2y + 6 = 0$$

1. Find the slope and the intercepts of it, and then draw it.

$$X=0 \Rightarrow y-int: 3.0-2y+6=0$$
  
 $y=0 \Rightarrow x-int: 3x-2.0+6=0$   
 $x=0 \Rightarrow x-int: 3x-2.0+6=0$ 



$$M = \frac{3-0}{0-(-2)} = \frac{3}{2}$$

$$0 \quad y = \frac{3}{2} \times +3 \implies m = \frac{3}{2}$$
2. Find the equation of the line perpendicular

2. Find the equation of the line perpendicular to it, passing through the origin.

$$M_1 = \frac{3}{2} \implies M_2 = \frac{-1}{M_1} = \frac{-1}{3/2} = -\frac{2}{3}$$

$$P(0,0)$$

$$y - 0 = -\frac{2}{3}(x - 0) \implies y = -\frac{2}{3}x$$