Name: Student ID: SOLUTIONS

Ouiz 3

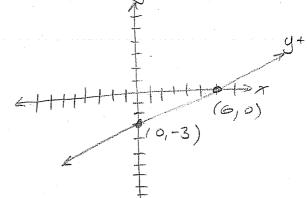
Question 1. (4 marks) Find the intercepts (indicate which is which) and graph the line

$$\frac{x-int}{y=0}$$
 $0+2=\frac{1}{2}(x-2)$

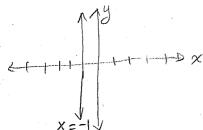
$$\frac{x - int! \ y = 0}{0 + 2 = \frac{1}{2}(x - 2)!} \frac{y - int! \ x = 0}{y + 2 = \frac{1}{2}(0 - 2)}$$

$$2 = \frac{1}{2}x - 1 \qquad y = -3$$

$$3 = \frac{1}{2} \times \left(0_1 - 3 \right)$$



Question 2. (2 marks) Graph the line x = -1. What is the slope of this line.



Question 3. (4 marks) Find the slope-intercept form and the point-slope form (indicate which is which) of the equation of the line through the points (-4,3) and (-2,5).

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{5 - 3}{-2 - (-4)} = \frac{2}{2} = 1$$

SLEPE-INTERLEPT FORM

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

$$y - 3 = (1)(x - (-4))$$

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

 $y-3=(1)(x-(-4))$
 $y-3=(x+4)$