Algebra 201-007-50 C2
Quiz 3
September 10, 2008

Name: $SOLUTIONS$

Student Number:

1. *(4 points)* Solve for x and give the solution graph and solution set (indicate which is which).
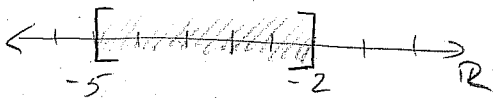
$$5 \leq 1 - 2x \leq 11$$

$$5 - 1 \leq -2x \leq 11 - 1$$

$$4 \leq -2x \leq 10$$

$$\frac{4}{-2} \geq \frac{-2x}{-2} \geq \frac{10}{-2}$$

$$-2 \geq x \geq -5$$

SOLUTION GRAPH:

SOLUTION SET:

$$[-5, -2]$$

1

2. *(6 points)* Find the x-intercept and y-intercept (indicate which is which) and use them to graph the following linear equation:

$$2x - 3y = 6$$

x-int: $y=0$

$2x - 3(0) = 6$

$2x = 6$

$x = 3$

$\therefore (3,0)$ is x-int.

y-int: $x=0$

$2(0) - 3y = 6$

$-3y = 6$

$y = -2$

$\therefore (0,-2)$ is y-int