Algebra 201-007-50 03
Quiz 2
September 5, 2008

Name: SOLUTIONS

Student Number:

1. *(2 points)* Devide the following fractions. Make sure the answer is in reduced form.

$$\frac{1}{6} \div \frac{3}{2}$$

$$= \frac{1}{6} \cdot \frac{2}{3} = \frac{2}{18} = \frac{1}{9}$$

2. *(3 points)* Solve for b in the formula $P = a + b + c$ if $P = 555$, $a = 210$ and $c = 80$.

$$555 = 210 + b + 80$$

$$555 - 210 - 80 = b$$

$$265 = b$$

3. *(3 points)* Solve for b in the formula

$$A = \frac{1}{2}bh$$

$$2A = 2 \cdot \frac{1}{2}bh$$

$$2A = bh$$

$$\frac{2A}{h} = b$$

4. *(4 points)* Solve for x in the following linear inequality and give the solution graph and solution set (indicate which is which).
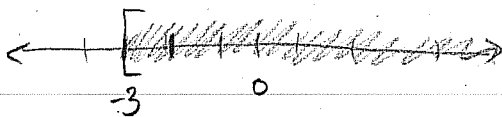
$$2(x-3) \le 6(x+1)$$

$$2x - 6 \le 6x + 6$$

$$2x - 6x \le 6 + 6$$

$$-4x \le 12$$

$$\frac{-4x}{-4} \ge \frac{12}{-4}$$

$$x \ge -3$$

SOLUTION GRAPH:

SOLUTIONS SET:

$$[-3, \infty)$$