

# Algebra 201-007-50 C2

## Quiz 2

September 3, 2008

Name: SOLUTIONS

Student Number:

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

$$\frac{5}{3} - \frac{1}{4}$$

$$= \frac{5}{3} \cdot \frac{4}{4} - \frac{1}{4} \cdot \frac{3}{3} = \frac{20}{12} - \frac{3}{12}$$

$$= \frac{17}{12}$$

2. (2 points) Divide the following. Make sure the answer is in reduced form.

$$6 \div \frac{5}{7}$$

$$= \frac{6}{1} \cdot \frac{7}{5} = \frac{42}{5}$$

3. (3 points) Solve for  $l$  in the formula  $P = 2l + 2w$  if  $P = 210$  and  $w = 35$ .

$$210 = 2l + 2(35)$$

$$210 = 2l + 70$$

$$210 - 70 = 2l$$

$$140 = 2l$$

$$70 = l$$

4. (3 points) Solve for  $b$  in the formula

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

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

$$2A = bh$$

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