

Math 0099  
University of North Georgia  
Summer 2015  
Quiz #2

Name: Key Date: June 9, 2015

Solve the equation

1.  $\frac{6(y-2)}{5} = -y + \frac{6}{5}$  LCD: 5

$$5 \left( \frac{6(y-2)}{5} = -y + \frac{6}{5} \right)$$

$$6(y-2) = -5y + 6$$

$$6y - 12 = -5y + 6$$

$$11y = 18$$

$$\boxed{y = \frac{18}{11}}$$

2.  $x^2 - 7x - 18 = 0$

$$(x-9)(x+2) = 0$$

①  $x - 9 = 0$

$$\boxed{x = 9}$$

②  $x + 2 = 0$

$$\boxed{x = -2}$$

Simplify

3.  $\frac{3x+6}{12} \div \frac{5x+10}{4}$

$$\frac{\cancel{3}(x+2)}{\cancel{12}} \cdot \frac{\cancel{4}}{5(x+2)} = \boxed{\frac{1}{5}}$$