

Math 0099  
University of North Georgia  
Summer 2015  
Quiz #1

Name: Key Date: June 4, 2015

Simplify the fractions

1.  $\frac{2}{5} + \frac{4}{7} - \frac{1}{6}$

$$\frac{14 + 20}{35} - \frac{1}{6}$$

$$\frac{34}{35} - \frac{1}{6} =$$

$$\frac{204 - 35}{210} =$$

$$\boxed{\frac{169}{210}}$$

2.  $\frac{\frac{2}{x}}{\frac{4}{x^2}}$

$$= \frac{2}{x}$$

$$\cdot \frac{x^2}{4}$$

$$=$$

$$\boxed{\frac{x}{2}}$$

Solve the equation

3.  $4x + 8 = \frac{6x}{3} - 5x$

$$\boxed{x = -\frac{8}{7}}$$

$$3(4x + 8 = \frac{6x}{3} - 5x)$$

$$12x + 24 = 6x - 15x$$

$$12x + 24 = -9x$$

$$21x = -24$$

$$x = -\frac{24}{21} = -\frac{8}{7}$$

Add

4.  $(7y^2 - 11y + 2) - (2y^2 - 6y) + (4y - 18)$

$$\cancel{7y^2} - \cancel{11y} + \cancel{2} - \cancel{2y^2} + \cancel{6y} + \cancel{4y} - \cancel{18}$$

$$5y^2 - y - 16$$