

Math 0097
University of North Georgia
Spring 2015
Quiz #6

Name: Key Date: March 6, 2015

Simplify the following. (Show ALL work NEATLY!)

$$1. 6 + \left[\frac{1}{6} \div \frac{1}{6} \right] \cdot \frac{1}{6} + \frac{1}{6} - 6 \cdot 6 \div 6 + 6$$

$$6 + \left[1 \cdot \frac{1}{6} \right] + \frac{1}{6} - 6 \cdot 6 \div 6 + 6$$

$$6 + \frac{1}{6} + \frac{1}{6} \left[- 6 \cdot 6 \right] \div 6 + 6$$

$$6 + \frac{1}{6} + \frac{1}{6} \left[- 36 \div 6 \right] + 6$$

$$\left[6 + \frac{1}{6} \right] + \frac{1}{6} - 6 + 6$$

$$\frac{36 + 1}{6}$$

$$\left[\frac{37}{6} + \frac{1}{6} \right] - 6 + 6$$

$$\left[\frac{38}{6} - 6 \right] + 6$$

$$\frac{38 - 36}{6} + 6$$

$$\left[\frac{2}{6} + 6 \right]$$

$$\frac{2 + 36}{6}$$

$$\left[\frac{38}{6} \right]$$

$$= \left[\frac{19}{3} \right]$$

$$2. \frac{\frac{7}{4} - \frac{5}{7}}{\frac{2}{5} + 8}$$

$$= \frac{\frac{49 - 10}{14}}{\frac{4 + 40}{5}}$$

$$= \frac{\frac{39}{14}}{\frac{44}{5}} = \frac{39}{14} \cdot \frac{5}{44} = \left[\frac{195}{616} \right]$$