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Meramec

Intermediate Algebra

Quiz 7

Summer 2009

NAME: _____ Score _____/10

Please **print** your name

SHOW ALL YOUR WORK IN A NEAT AND ORGANIZED FASHION

1. Perform the indicated multiplication. **Simplify.**

$$\left(\frac{2x-4}{15}\right)\left(\frac{6}{x+2}\right) =$$

2. Perform the indicated addition. **Simplify.**

$$\left(\frac{x+2}{x^2-36}\right) + \left(\frac{x}{x^2+9x+18}\right) =$$

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3. Change the following subtraction problem to an equivalent addition problem. **Don't bother doing the addition.**

$$\left(\frac{y+1}{y^2-6y+8}\right) - \left(\frac{3}{y^2-16}\right)$$

4. Change the following division problem to an equivalent multiplication problem. **Don't bother doing the addition.**

$$\left(\frac{y+1}{y^2-6y+8}\right) \div \left(\frac{3}{y^2-16}\right)$$

5. What is the least common denominator of the listed rational expressions?

$$\frac{x}{x^2-9}, \quad \frac{5}{x}, \quad \frac{7}{12-4x}$$