

Student: _____
Date: _____
Time: _____

Instructor: Alyson Muff
Course: Math 012 Spring 2013 Section 7982
Book: Martin-Gay: Intermediate Algebra, 6e

Assignment: Math012 Quiz 4

1. Perform the division.

$$\frac{r^3 - s^3}{r - s}$$

$$\frac{r^3 - s^3}{r - s} = \square$$

(Simplify your answer.)

ID: 6.1.61

2. Perform the multiplication.

$$\frac{6x^4 + 5x^2 - 1}{x - 1} \cdot \frac{x + 1}{x^4 - 1}$$

$$\frac{6x^4 + 5x^2 - 1}{x - 1} \cdot \frac{x + 1}{x^4 - 1} = \square \text{ (Simplify your answer.)}$$

ID: 6.1.69

3. Perform the indicated operation.

$$\left(\frac{x}{x+2} - \frac{x}{x-2} \right) \div \frac{x}{3x+6}$$

$$\left(\frac{x}{x+2} - \frac{x}{x-2} \right) \div \frac{x}{3x+6} = \square \text{ (Simplify your answer.)}$$

ID: 6.2.79

4. Use the distributive property to multiply the following.

$$112 \left(\frac{3}{4} + \frac{1}{7} \right)$$

$$112 \left(\frac{3}{4} + \frac{1}{7} \right) = \square$$

(Simplify your answer.)

ID: 6.2.83

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5. Simplify.

$$\frac{1}{1 + (6 + x)^{-1}}$$

$$\frac{1}{1 + (6 + x)^{-1}} = \boxed{}$$

ID: 6.3.65

6. Simplify.

$$\frac{8x}{1 - \frac{1}{1 + \frac{1}{x}}}$$

$$\frac{8x}{1 - \frac{1}{1 + \frac{1}{x}}} = \boxed{}$$

ID: 6.3.67

7. Simplify.

$$\frac{\frac{3}{y^2} - \frac{5}{xy} - \frac{2}{x^2}}{\frac{3}{y^2} + \frac{7}{xy} + \frac{2}{x^2}}$$

$$\frac{\frac{3}{y^2} - \frac{5}{xy} - \frac{2}{x^2}}{\frac{3}{y^2} + \frac{7}{xy} + \frac{2}{x^2}} = \boxed{}$$

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8. Multiply and simplify.

$$\frac{a^3 + a^2b + a + b}{9a^3 + 9a} \cdot \frac{18a^2}{9a^2 - 9b^2}$$

$$\frac{a^3 + a^2b + a + b}{9a^3 + 9a} \cdot \frac{18a^2}{9a^2 - 9b^2} = \boxed{} \text{ (Simplify your answer.)}$$

ID: 6.1.41