

Unit 12 Test Review

Name _____ Hr. _____

Simplify:

1.
$$\frac{6a+12}{5} \cdot \frac{10}{a+2}$$

2.
$$\frac{2x^2+15x-27}{4x+18} \cdot \frac{10}{2x^2-3x}$$

3.
$$\frac{x}{x^2-9} \div \frac{x^2}{x-3}$$

4.
$$\frac{\frac{m^2}{5n^3}}{\frac{m}{n^2}}$$

5.
$$\frac{\frac{x^2-64}{4x^2+32x}}{x-6} \div \frac{2x^3-72x}{x-6}$$

Find the LCM of each set of polynomials.

6. $10x^2, 30xy^2, 55x^4y^3$

7. $y^2 + y - 42$, $y^2 + 6y - 7$

Algebra 2B

Simplify each expression.

8. $\frac{10}{pg} + \frac{4}{g}$

9. $\frac{4}{k+1} + \frac{9}{2k+2}$

10. $\frac{7}{2d-1} - \frac{3}{1-2d}$

For Questions 11 and 12, solve each equation.

11. $x + \frac{2x}{x-2} = \frac{3x-2}{x-2}$

11. _____

Undefined at _____

12. $\frac{x}{x-2} = \frac{7}{5}$

12. _____

Undefined at _____