

LCD Practice

Name: _____

Find the LCD for each of the following rational expressions:

1. $\frac{1}{2} \quad \frac{4}{5}$

2. $\frac{2}{x} \quad \frac{2x^2}{x+2}$

3. $\frac{1}{2} \quad \frac{1}{3} \quad \frac{1}{4}$

4. $\frac{4}{x+1} \quad \frac{4}{x+2} \quad \frac{4}{(x+1)^2}$

5. $\frac{5}{x^2} \quad \frac{5}{2x^2-2}$

6. $\frac{6}{x^2-16} \quad \frac{6}{x+4} \quad \frac{6}{x^2-2x-8}$

7. Simplify: $\frac{5x}{x-5} - \frac{x+3}{x+2}$

8. Simplify: $\frac{\frac{4}{x+6}}{\frac{10}{x} + x}$

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9. Factor: $27x^3 - 1$

10. Solve: $\frac{2}{x+1} + \frac{x-3}{x} = \frac{1}{2}$

Simplify:

11. $\frac{x^2 - 25}{x^2 - 2x - 15} \cdot \frac{x^3 + 27}{x + 5}$

12. $\frac{x^2 + 9x + 18}{x^2 - 36} \div \frac{x^2 - 4}{x^3 - 6x^2 + 3x - 18}$

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