

**Quiz 167** .....

Simplify. State any excluded values.

1. 
$$\frac{4x^2 - 9}{2x^2 + 5x - 12}$$

2. 
$$\frac{5x + 15}{x^2 - 10x + 25} \div \frac{x + 3}{x - 5}$$

3. 
$$\frac{x}{x - 3} - \frac{x - 6}{x^2 - 7x + 12}$$

Solve. Check for extraneous solutions.

4. 
$$\frac{x}{x + 5} = \frac{4}{x} - \frac{3}{x + 5}$$

5. Alex can clean the house in 1 hour. Working together, Alex and Leah can clean the house in just 15 minutes. How long will it take Leah alone to clean the house?