

Assignment 4.6

Perform the indicated operation, reduce if possible. Show all steps.

1. $\frac{7}{3x} - \frac{4}{5x^2}$

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

3. $\frac{5}{x+5} + \frac{4x}{2x+6}$

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

5. $\frac{x+2}{x-6} - \frac{x^2+5x+14}{x^2-2x-24}$

6. $\frac{x+5}{x^2+3x-4} - \frac{x+2}{x^2-1}$

$$7. \quad \frac{x-5}{x^2-5x+6} + \frac{x+1}{x^2+3x-10}$$

$$8. \quad \frac{x-2}{x^2+7x-18} + \frac{3x}{x^2+2x-3}$$

Refresh Your Memory

Perform the indicated operation, reduce if possible. Show all steps.

$$9. \quad \frac{30}{x^2+4x-12} \div \frac{6x}{x-2}$$

$$10. \quad \frac{15}{x^2+2x-8} \cdot \frac{x-2}{5x}$$

$$11. \quad \frac{x^2+4x+4}{x+2} \cdot \frac{x-1}{x^2-3x-10}$$

$$12. \quad \frac{x^2+3x-28}{x^2+4x+4} \div \frac{x^2-49}{x^2-5x-14}$$