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Subtracting Rational Expressions

Practice Worksheet A

1 Practice Problems

Simplify each expression.

1) $\frac{5}{4x} - \frac{2}{4x}$

5) $\frac{5}{x-1} - \frac{3x}{4}$

2) $\frac{9}{x-9} - \frac{4}{x-9}$

6) $\frac{4}{9x} - \frac{6x}{4x^2}$

3) $\frac{5x}{2x^2} - \frac{8}{2x^2}$

7) $\frac{4}{2x-3} - \frac{6}{3x+4}$

4) $\frac{8x}{9} - \frac{6}{x+5}$

8) $\frac{8x}{2x+6} - \frac{5}{6x+4}$

Subtracting Rational Expressions

Practice Worksheet A

1 Practice Problems

Simplify each expression.

1) $\frac{5}{4x} - \frac{2}{4x}$

$$\frac{3}{4x}$$

5) $\frac{5}{x-1} - \frac{3x}{4}$

$$\frac{-3x^2 + 3x + 20}{4x-4}$$

2) $\frac{9}{x-9} - \frac{4}{x-9}$

$$\frac{5}{x-9}$$

6) $\frac{4}{9x} - \frac{6x}{4x^2}$

$$\frac{-19}{18x}$$

3) $\frac{5x}{2x^2} - \frac{8}{2x^2}$

$$\frac{5x-8}{2x^2}$$

7) $\frac{4}{2x-3} - \frac{6}{3x+4}$

$$\frac{34}{6x^2 - x - 12}$$

4) $\frac{8x}{9} - \frac{6}{x+5}$

$$\frac{8x^2 + 40x - 54}{9x + 45}$$

8) $\frac{8x}{2x+6} - \frac{5}{6x+4}$

$$\frac{24x^2 + 11x - 15}{6x^2 + 22x + 12}$$