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Multiplying Rational Expressions

Practice Worksheet A

1 Practice Problems

Simplify each expression.

1) $\frac{8x}{3} \cdot \frac{5x}{3}$

5) $\frac{2x-8}{5} \cdot \frac{4}{3x}$

2) $\frac{4}{9x} \cdot \frac{2x^2}{5}$

6) $\frac{4x}{9} \cdot \frac{5}{3x+2}$

3) $\frac{5}{2x} \cdot \frac{4}{9x}$

7) $\frac{4}{5x^2} \cdot \frac{5x}{3x^2+2x}$

4) $\frac{5x+5}{3} \cdot \frac{4x-2}{7}$

8) $\frac{4x^2+5}{5x} \cdot \frac{5x^2-4}{3x+9}$

Multiplying Rational Expressions

Practice Worksheet A

1 Practice Problems

Simplify each expression.

1) $\frac{8x}{3} \cdot \frac{5x}{3}$

$$\frac{40x^2}{9}$$

5) $\frac{2x-8}{5} \cdot \frac{4}{3x}$

$$\frac{8x-32}{15x}$$

2) $\frac{4}{9x} \cdot \frac{2x^2}{5}$

$$\frac{8x}{45}$$

6) $\frac{4x}{9} \cdot \frac{5}{3x+2}$

$$\frac{20x}{27x+18}$$

3) $\frac{5}{2x} \cdot \frac{4}{9x}$

$$\frac{10}{9x^2}$$

7) $\frac{4}{5x^2} \cdot \frac{5x}{3x^2+2x}$

$$\frac{10}{3x^3+2x^2}$$

4) $\frac{5x+5}{3} \cdot \frac{4x-2}{7}$

$$\frac{2x^2 + 10x - 10}{21}$$

8) $\frac{4x^2+5}{5x} \cdot \frac{5x^2-4}{3x+9}$

$$\frac{20x^4 + 25x^3 - 16x^2 - 20x}{15x^2 + 45x}$$