

Arithmetic with Polynomials - Worksheet 7

Answer Key

Simplify the following:

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

$$\frac{x(2x+3)(x+2)}{x+3}.$$

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

$$\frac{2x^2-2x+11}{x^2+x-6}.$$

3. $\frac{x^2-3x}{x^2+2x+1} \div \frac{x}{x+1}.$

$$\frac{x-3}{x+1}.$$

4. $\frac{4x-8}{x^2-4} \times \frac{x+2}{4}.$

1.

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

$$\frac{x+6}{x-1}.$$

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

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

7. $\frac{x}{x-2} + \frac{x+2}{x+1}.$

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

8. $\frac{3x+7}{2x} - \frac{x+4}{x-8}.$

$$\frac{x^2-25x-56}{2x^2-16x}.$$

9. $\frac{1}{x^2-9} + \frac{5}{x+3}.$

$$\frac{5x-14}{x^2-9}.$$

10. $\frac{3x+2}{x^2-1} \div \frac{x}{x-1}.$

$$\frac{3x+2}{x(x-1)}.$$

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