

Perform the indicated operation.

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

$$\frac{4x^2 - 8x + 11}{2x - 3}$$

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

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

$$\frac{y^3 - 8}{y - 2}$$

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

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

$$\frac{x^3 + 2x^2 + 3x + 6}{x^2 + 3}$$

$$\frac{2x^4 - 2x^2 - 10}{x^2 - 3}$$

$$\frac{4x^3 - 2x^2 + 2x + 15}{2x + 3}$$

$$\frac{x^2 + x + 1}{x - 1}$$

$$\frac{16x^4 - 2}{2x^2 + 1}$$

Simplify the expression completely. Solve any equations for x.

$$\frac{4x - 24}{x^2 - 6x}$$

$$\frac{1}{m^2 - m - 2} - \frac{1}{m^2 + 3m + 2}$$

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

$$\frac{x^2 - 4}{x^2 - 2x - 8}$$

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

$$\frac{2x}{x + 3} + \frac{6}{x + 3}$$

$$\frac{10 + 3x - x^2}{x^2 - 4x - 5}$$

$$\frac{x^2 - 4x - 32}{x^2 - 8x - 48} \cdot \frac{3x^2 + 17x + 10}{3x^2 - 22x - 16}$$

$$\frac{3}{x} - \frac{2}{x^2}$$

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

$$\frac{y^2 - y - 56}{y^2 + 8y + 7} \div \frac{y^2 - 13y + 40}{y^2 - 4y - 5}$$

$$\frac{3x^2 + 9x}{x^2 - 9} \cdot \frac{2x^2 - 9x + 9}{2x^3 - 3x^2}$$

$$\frac{5}{9x^2} + \frac{1}{6x}$$

$$\frac{6n^2 + 13n + 6}{4n^2 - 9} \div \frac{6n^2 + n - 2}{4n^2 - 1}$$

$$\frac{4x^2 - 25}{2x^2 - 5x} \div (6x + 15)$$

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

$$\frac{x^2 - 3x}{5x^2} \cdot \frac{10x}{x^2 - 4x + 3}$$

$$\frac{4}{x - 2} - \frac{7}{x + 5} = 0$$

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

$$\frac{5}{3x} + \frac{1}{x^2} = \frac{5}{2x}$$

$$\frac{3p^2 + 11p - 4}{24p^3 - 8p^2} \div \frac{9p + 36}{24 - 36p^3}$$

$$\frac{3x - 9}{x^2 - 2x} \div \frac{x^2 - x - 6}{x^2 - 4}$$

$$\frac{10}{x - 3} - 2 = \frac{5}{x + 3}$$