

Student Name: _____

Score: _____

Divide the Polynomials by Monomials

$$\frac{9x^2 - 3x + 12}{3x} = \underline{\hspace{2cm}}$$

$$\frac{11x^5 + 7x^3 - 2x}{x^2} = \underline{\hspace{2cm}}$$

$$\frac{8x^3 - x^2 + 2x - 1}{2x} = \underline{\hspace{2cm}}$$

$$\frac{x^2 + 5x + 6}{x^2} = \underline{\hspace{2cm}}$$

$$\frac{x^6 - 4x^4 + 3x^2}{5x^2} = \underline{\hspace{2cm}}$$

$$\frac{x^3 + 6x - 1}{-3x} = \underline{\hspace{2cm}}$$

$$\frac{3x^5 - 15x^3 + 6x}{9x} = \underline{\hspace{2cm}}$$

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Answers

$$\frac{9x^2 - 3x + 12}{3x} = 3x - 1 + \frac{4}{x}$$

$$\frac{11x^5 + 7x^3 - 2x}{x^2} = 11x^3 + 7x - \frac{2}{x}$$

$$\frac{8x^3 - x^2 + 2x - 1}{2x} = 4x^2 - \frac{x}{2} + 1 - \frac{1}{2x}$$

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

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

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

$$\frac{3x^5 - 15x^3 + 6x}{9x} = \frac{x^4}{3} - \frac{5x^2}{3} + \frac{2}{3}$$