

Polynomial Operations

1. Perform the indicated operation to write each polynomial in standard form.

a) $(x^2 - 3)(x^2 + 3x - 1)$

b) $(5x^2 - 3x - 7) - (x^2 + 2x - 5)$

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

d) $(x + 1)(x - 2)(x + 3)$

e) $(x + 1) - (x - 2) - (x + 3)$

f) $(x + 2)(2x^2 - 5x + 7)$

g) $\frac{x^3 - 2x^2 - 65x + 18}{x - 9}$

h) $(x^2 - 3x + 2) - (2 - x + 2x^2)$

Polynomial Operations

1. Perform the indicated operation to write each polynomial in standard form.

a) $(x^2 - 3)(x^2 + 3x - 1)$

$$x^4 + 3x^3 - 4x^2 - 9x + 3$$

b) $(5x^2 - 3x - 7) - (x^2 + 2x - 5)$

$$4x^2 - 5x - 2$$

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

$$x^2 + 2x + 4$$

d) $(x + 1)(x - 2)(x + 3)$

$$x^3 + 2x^2 - 5x - 6$$

e) $(x + 1) - (x - 2) - (x + 3)$

$$-x$$

f) $(x + 2)(2x^2 - 5x + 7)$

$$2x^3 - x^2 - 3x + 14$$

g) $\frac{x^3 - 2x^2 - 65x + 18}{x - 9}$

$$x^2 + 7x - 2$$

h) $(x^2 - 3x + 2) - (2 - x + 2x^2)$

$$-x^2 - 2x$$

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