

Name: _____

Date: _____

1. a. $(3x + 5) + (x - 3)$

b. $(7x - 2) - (4x + 6)$

2. a. $(9x - 4) - (-3x + 7)$

b. $(16x^2 + 7x - 4) + (6x^2 + 21x - 13)$

3. a. $(9x + 5x^2 - 8) + (17 - 4x + 6x^2)$

b. $(32x^2 - 17x + 55) - (16x^2 - 29x + 58)$

4. a. $(2x^4 - 18) + (6x^2 - 4x)$

b. $(2x^3 - 3x^2 + 1) - (5x^2 + 2x - 7)$

5. a. $2(4x - 9) - 3(7x - 6)$

b. $7(x + 1) + 4(3x + 5)$

Analyze the following polynomials:

1. $f(x) = 5x^2 + 7 - 3x - 9x^3$

standard form:

degree:

leading coefficient:

constant:

Classify (2 names):

2. $g(x) = 7x^2 - 8x^3$

standard form:

degree:

leading coefficient:

constant:

Classify (2 names):

3. $h(x) = 4x^2$

standard form:

degree:

leading coefficient:

constant:

Classify (2 names):

4. $m(x) = 9x^2 + 6 - 2.3x$

standard form:

degree:

leading coefficient:

constant:

Classify (2 names):

5. $z(x) = 2x^2 - 4 - 3x^4 + 12x^3$

standard form:

degree:

leading coefficient:

constant:

Classify (2 names):