

Name: _____

Date: _____

Identify the following characteristics:

1. $f(x) = 4x - 1 + 2x^4 + 10x^3$

standard form:

degree:

leading coefficient:

constant:

2. $h(x) = 2x - 5x^2 + 4$

standard form:

degree:

leading coefficient:

constant:

Classify the following polynomials by degree and terms. (You should have 2 words for each)

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

4. $-5x^3 + 3x^2 + 4x - 2$

5. $2x + 1$

6. 3

7. $-3x^2 + 2$

8. $x^4 + 3x - 1$

Add or Subtract. Put in standard form.

9. $(5x^2 - 3) + (2x^2 - 3x^3)$

10. $(a^3 - 2a^2) - (3a^2 - 4a^3)$

11. $(3y^2 + 1) - (4 + 2y^2)$

12. $(-4x^4 + 14 + 3x^2) + (-3x^4 - 14x^2)$

13. $(12y^5 - 6y - 10y^3) - (10y - 2y^5 - 14y^4)$

14. $(9a^2b + 5ab + 11a) + (-2a^2b + 4ab - 8a)$