

**Algebra 2**  
**Chapter 6 / Unit 4**  
**Sec 6.1 Homework p.309**

For each of the following problems:

- a) Write the polynomial in standard form
- b) Classify the polynomial by its degree
- c) Classify the polynomial by its number of terms

1.  $7x + 3x + 5$

2.  $5 - 3x$

3.  $2m^2 - 3 + 7m$

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

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

6.  $5a^2 + 3a^3 + 1$

7.  $-x^5$

8.  $3 + 12x^4$

9.  $6x^3 - x^3$

10.  $7x^3 - 10x^3 + x^3$

11.  $4x + 5x^2 + 8$

12.  $x^2 - x^4 + 2x^2$

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