Algebra 1 Chapter 7 Review (7.1 - 7.4)

Write the polynomial in standard form. Then state the leading coefficient and classify by degree and number of terms.

1.	$7x^2$	_	$12x^{3}$

$$2. 7w + 16w^7 - 3w^4$$

SF:

SF:

SF:

LC:

LC:

LC:

Classify by degree:

Classify by degree:

Classify by degree:

Classify by # of terms:

Classify by # of terms:

Classify by # of terms:

Find the sum or the difference.

4.
$$(-12g - 4) + (14g + 7)$$

5.
$$(t^3 - 2t^2 + 7) + (7t^2 - 13t^3 - 5t)$$

6.
$$(10y + 4) - (-3y - 34)$$

7.
$$(x^2 + 2x - 8) - (2x^2 - 5x + 9)$$

Find the product.

8.
$$(n-10)(n-3)$$

9.
$$(2r-5)(r+9)$$

10.
$$(3y - 5)^2$$

11.
$$(2m-4)(2m-4)$$

12.
$$\left(\frac{1}{2}x+3\right)\left(8x^2-4x+6\right)$$

13. $(4x-3)(x^2+2x-7)$

- 14. A rectangular flower bed has a width of (2x+5) and a length of (x+10).
- a. Write a polynomial that represents the area of the flower bed.
- b. Find the area of the flower bed when the length is 25 feet.

Factor by finding the greatest common factor.

$15.5x^3 + 15x^2 - 2$	25 <i>x</i>

16. $9y^2 + 15y + 3$

Solve the equation.
17.
$$(3x - 9)(2x + 10) = 0$$

18. $(2x-4)^2 = 0$

19.
$$5x^2 - 15x = 0$$

 $20. \ 18g - 6g^2 = 0$