## 7.5 Pg. 479

## Algebra Daily Practice

Find the degree of each monomial.

4. 10<sup>6</sup>

8

5. 
$$-7xv^2$$

Find the degree of each polynomial.

8. 
$$x^2 - 2x + 1$$

9. 
$$0.75a^2b - 2a^3b^3$$

**10.** 
$$15y - 84y^3 + 100 - 3y^2$$

11. 
$$r^3 + r^2 - 5$$

12. 
$$a^2 + a^2 - 2a$$

Write each polynomial in standard form. Then give the leading coefficient.

**15.** 
$$9a^8 - 8a^9$$

17. 
$$2x + 3x^2 - 1$$

**18.** 
$$5g - 7 + g^2$$

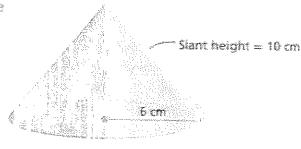
Classify each polynomial according to its degree and number of terms.

**20.** 
$$x^2 + 2x + 3$$

23. 
$$q^2 + 6 - q^3 + 3q^4$$

**25.** 
$$2n^3 = 4n^2 = n^4$$

**26. Geometry** The surface area of a cone is approximated by the polynomial  $3.14r^2 + 3.14r\ell$ , where r is the radius and  $\ell$  is the slant height. Find the approximate surface area of this cone.



## 7.6A - Pg. 487

Add or subtract.

1. 
$$7a^2 - 10a^2 + 9a$$

2. 
$$13x^2 + 9y^2 - 6x^2$$

3. 
$$0.077^4 + 0.327^3 + 0.197^4$$

$$4.\frac{1}{3}p^3 + \frac{2}{3}p^3$$

5. 
$$5b^2c + b^3c - 3b^3c$$

6. 
$$-8m + 5 - 16 + 11m$$

Add.

7. 
$$(5n^3 + 3n + 6) + (18n^3 + 9)$$

8. 
$$(3.7q^2 - 8q + 3.7) + (4.3q^2 - 2.9q + 1.6)$$

9. 
$$(-3x+12)+(9x^2+2x-18)$$

10. 
$$(9x^4 + x^3) + (2x^4 + 6x^3 - 8x^4 + x^3)$$

Add.

**25.** 
$$(2t^2-8t)+(8t^2+9t)$$

27. 
$$(x^5-x)+(x^4+x)$$

**26.** 
$$(-7x^2-2x+3)+(4x^2-9x)$$

**28.** 
$$(-2z^3+z+2z^2+z)+(3z^3-5z^2)$$

34. Geometry The length of a rectangle is represented by 4a + 3b, and its width is represented by 7a - 2b. Write a polynomial for the perimeter of the rectangle.