7.5 Pg. 479
Algebra Daily Practice

Find the degree of each monomial.

4. 10^6　　　　　**5.** $-7xy^2$　　　　　**6.** $0.4n^8$　　　　　**7.** 2

Find the degree of each polynomial.

8. $x^2 - 2x + 1$　　　　**9.** $0.75a^2b - 2a^3b^5$　　　　**10.** $15y - 84y^3 + 100 - 3y^2$

11. $r^3 + r^2 - 5$　　　　**12.** $a^3 + a^2 - 2a$　　　　**13.** $3k^4 + k^3 - 2k^2 + k$

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

14. $-2b + 5 + b^2$　　　　**15.** $9a^8 - 8a^9$　　　　**16.** $5s^2 - 3s + 3 - s^7$

17. $2x + 3x^2 - 1$　　　　**18.** $5g - 7 + g^2$　　　　**19.** $3c^2 + 5c^4 + 5c^3 - 4$

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

20. $x^2 + 2x + 3$　　　　**21.** $x - 7$　　　　**22.** $8 + k + 5k^4$

23. $q^2 + 6 - q^3 + 3q^4$　　　　**24.** $5k^2 + 7k^3$　　　　**25.** $2a^3 + 4a^2 - a^4$

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 ℓ is the slant height. Find the approximate surface area of this cone.

Slant height = 10 cm

6 cm