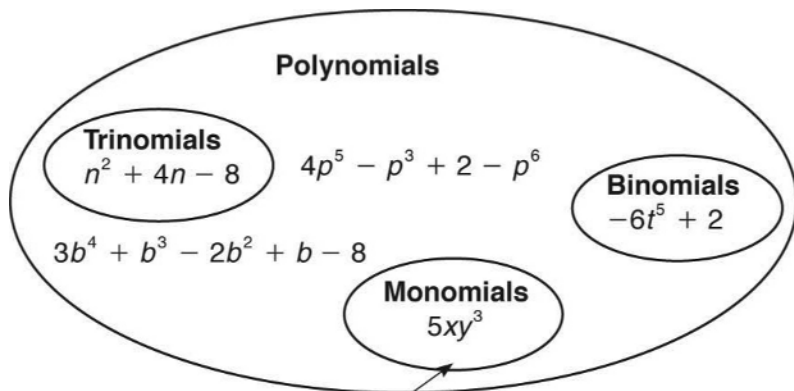


LESSON
17-1

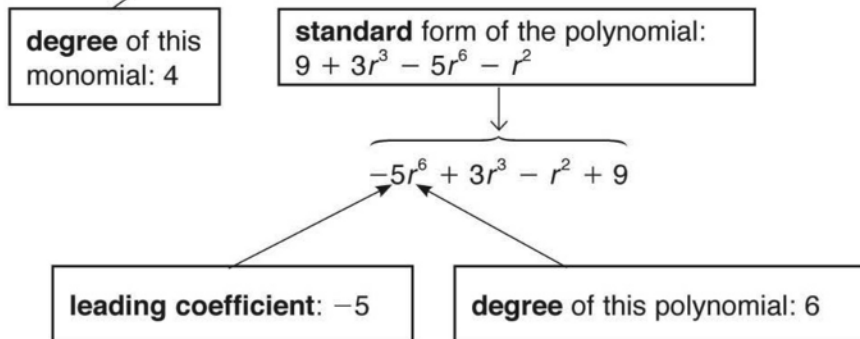
Understanding Polynomial Expressions

Reading Strategies: Build Vocabulary

There is a great deal of introductory vocabulary related to polynomials. The meaning of and relationships among the terms are shown below.



Classification	Degree
Constant	0
Linear	1
Quadratic	2
Cubic	3
Quartic	4
Quintic	5
6th degree	6
7th degree	7
etc.	etc.



Complete each of the following.

1. How many terms are in a trinomial? _____ In a monomial? _____

2. Why does $5xy^3$ have a degree of 4? (*Hint:* Look at the exponents on the variables.)

3. Classify $4n^3 + 6$ by degree. _____ by number of terms. _____

Use the polynomial $8g + 1 - 4g^2$ to complete the following.

4. Write the polynomial in standard form. _____

5. What is the leading coefficient? _____

6. What is the degree of the polynomial? _____

7. Classify the polynomial by number of terms. _____

8. Classify the polynomial by degree. _____