**11-2A Lesson Master**

**SKILLS** Objective A

In 1 and 2, simplify the expression.

1. \((7m^3 - 9m^2 + 8m - 1) + (m^2 + 3m + 13)\)

2. \((5n^2 + 6n + 2) - (5n^2 + 10n - 8)\)

**PROPERTIES** Objective E

3. **Multiple Choice.** Which expression is a binomial?

   A \(\frac{x}{y^2} + \frac{3x}{y^2}\)  
   B \(2(y^2 + 9)^2\)  
   C \(n + 3\)  
   D \(5a^2\)

In 4 and 5, an expression is given. If the expression is a monomial, state its degree.

4. \(6x^4\)

5. \(x^2y^5\)

6. a. Write a monomial in \(x\) whose degree is 6.

   b. Write a monomial in \(x\) and \(y\) whose degree is 6.

7. a. What is the degree of the monomial 12?

   b. Give an example of another monomial with the same degree as 12.

In 8–10, give the degree of the polynomial.

8. \(x^5 - 2x^7\)

9. \(5x^2 + 7x - 3\)

10. \(2x^4 + 5x^4 - 3x^6\)

11. a. Write a trinomial in \(x\) whose degree is 6.

    b. Write a trinomial in \(x\) and \(y\) whose degree is 6.

12. Give an example of a trinomial of degree 5.

13. Give an example of a binomial of degree 3.

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**Algebra**