

NAME \_\_\_\_\_

DATE \_\_\_\_\_

CLASS \_\_\_\_\_

**SAMPLE TEST**

1. **SECTION 5.1** Factor:  $12x^3 + 20x^2$ .
  
2. **SECTION 5.7** A rectangle has length equal to four times the width. If the area is 324 square inches, what are the dimensions?
  
3. **SECTION 5.4** Factor:  $3t^2 + 2t - 8$ .
  
4. **SECTION 5.6** Solve:  $5x^2 + 13x - 6 = 0$ .
  
5. **SECTION 5.5** Factor:  $9x^2 + 4xy - 18x - 8y$ .
  
6. **SECTION 5.3** Factor:  $v^2 - v - 12$ .
  
7. **SECTION 5.2** Factor:  $16n^4 - 81$ .
  
8. **SECTION 5.2** Factor:  $x^2 + 6x + 9$ .
  
9. **SECTION 5.5** Factor:  $2n^3 + 4n^2 - 6n$ .
  
10. **SECTION 5.8 (Optional)** Factor:  $x^3 - 64$ .
  
11. **SECTION 5.8 (Optional)** Factor:  $8p^3 + 216$ .

**ANSWERS**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

