

**Assignment**

Date \_\_\_\_\_ Period \_\_\_\_\_

**Factor each completely.**

1)  $n^2 + 11n + 10$

2)  $r^2 - 10r + 16$

3)  $x^2 + 7x + 12$

4)  $r^2 + 3r - 18$

5)  $v^2 - 4v - 5$

6)  $x^2 - 25$

7)  $v^2 - 11v + 30$

8)  $6x^2 + 60x + 54$

9)  $5x^2 + 11x + 6$

10)  $5a^2 - a$

**Solve each equation by completing the square.**

11)  $b^2 + 12b + 26 = 0$

12)  $x^2 + 4x - 8 = 0$

**Solve each equation with the quadratic formula.**

13)  $m^2 - 8m - 9 = 0$

14)  $4b^2 + 6b - 9 = 0$

15)  $7x^2 - 8x - 1 = 0$

16)  $3n^2 - 4n - 7 = 0$