

## Review All Methods

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

**Solve each equation by taking square roots.**

1)  $x^2 = 17$

2)  $10x^2 = 500$

3)  $3p^2 + 4 = 208$

4)  $6k^2 + 1 = 427$

**Solve each equation by factoring.**

5)  $r^2 - 2r + 1 = 0$

6)  $v^2 + 12v + 32 = 0$

7)  $p^2 - 5p - 5 = -5$

8)  $x^2 - 5x + 2 = 8$

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

9)  $n^2 + 16n + 63 = 0$

10)  $k^2 - 20k - 96 = 0$

11)  $n^2 + 6n - 40 = 0$

12)  $m^2 - 2m - 8 = 0$

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

13)  $2a^2 - 2a - 40 = 0$

14)  $2x^2 + 8x + 1 = 0$

15)  $12x^2 - 12x - 14 = 7$

16)  $x^2 + 2x - 74 = 6$

## Answers to Review All Methods (ID: 1)

- 1)  $\{\sqrt{17}, -\sqrt{17}\}$       2)  $\{5\sqrt{2}, -5\sqrt{2}\}$       3)  $\{2\sqrt{17}, -2\sqrt{17}\}$       4)  $\{\sqrt{71}, -\sqrt{71}\}$   
5)  $\{1\}$       6)  $\{-8, -4\}$       7)  $\{5, 0\}$       8)  $\{-1, 6\}$   
9)  $\{-7, -9\}$       10)  $\{24, -4\}$       11)  $\{4, -10\}$       12)  $\{4, -2\}$   
13)  $\{5, -4\}$       14)  $\left\{\frac{-4 + \sqrt{14}}{2}, \frac{-4 - \sqrt{14}}{2}\right\}$       15)  $\left\{\frac{1 + 2\sqrt{2}}{2}, \frac{1 - 2\sqrt{2}}{2}\right\}$   
16)  $\{8, -10\}$