

## Unit 3b Review

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

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

1)  $r^2 = 36$

2)  $a^2 = 4$

3)  $25x^2 = 16$

4)  $36n^2 = 100$

$$5) 8v^2 = 48$$

$$6) -8x^2 = -352$$

**Solve each equation by factoring.**

$$7) (5n + 4)(3n + 4) = 0$$

$$8) (a - 3)(a - 7) = 0$$

$$9) b^2 + 13b + 46 = 4$$

$$10) v^2 - 7v + 13 = 7$$

$$11) 2a^2 + 5a - 25 = 0$$

$$12) 7n^2 + 30n - 25 = 0$$

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

13)  $x^2 - 14x + 45 = 0$

14)  $k^2 + 18k - 88 = 0$

15)  $n^2 - 16n + 28 = 0$

16)  $m^2 + 8m - 20 = 0$

## Answers to Unit 3b Review (ID: 1)

1)  $\{6, -6\}$

2)  $\{2, -2\}$

3)  $\left\{\frac{4}{5}, -\frac{4}{5}\right\}$

4)  $\left\{1\frac{2}{3}, -1\frac{2}{3}\right\}$

5)  $\{\sqrt{6}, -\sqrt{6}\}$

6)  $\{2\sqrt{11}, -2\sqrt{11}\}$

7)  $\left\{-\frac{4}{5}, -\frac{4}{3}\right\}$

8)  $\{3, 7\}$

9)  $\{-7, -6\}$

10)  $\{6, 1\}$

11)  $\left\{\frac{5}{2}, -5\right\}$

12)  $\left\{\frac{5}{7}, -5\right\}$

13)  $\{9, 5\}$

14)  $\{4, -22\}$

15)  $\{14, 2\}$

16)  $\{2, -10\}$