

## Review Solving

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

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

1)  $r^2 + 12r - 63 = -2$

**Solve each equation by factoring.**

2)  $56m^2 - 256 = -160m$

3)  $16n^2 + 88n = -40$

4)  $n^2 - 3n = 18$

5)  $k^2 = 3k$

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

6)  $4p^2 + 6 = 42$

7)  $36x^2 + 6 = 31$

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

8)  $9r^2 - 2 = -5r$

9)  $9n^2 = 15$

**Solve each equation. Remember to check for extraneous solutions.**

10)  $n = \sqrt{6n}$

11)  $-15 = -5\sqrt{-5 - 2n}$

**Solve each equation.**

12)  $|2 - 4n| - 1 = -7$

13)  $|5 + 4n| - 8 = -7$

14)  $-5(n - 1) = 12n - 2(8n + 7)$

15)  $3a - 3(12 - 4a) = -2 + 3(1 + 5a)$

**Use the information provided to write the standard form equation of each circle.**

16) Center:  $(15, -6)$   
Point on Circle:  $(15, -2)$

17) Ends of a diameter:  $(-15, 3)$  and  $(-9, 3)$