

## 8.9 - 9.4 Review

Period \_\_\_\_\_

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

1)  $4n^2 + 1 = 5$

2)  $8m^2 - 2 = 30$

3)  $8k^2 + 5 = -46$

4)  $6 - 16n^2 = -1290$

5)  $14n^2 + 12 = 152$

6)  $7k^2 - 20 = 1772$

7)  $4(x - 3)^2 + 7 = 151$

8)  $12(x + 1)^2 - 9 = 759$

**Find the value of c that completes the square and then write it in factored form.**

9)  $x^2 - 8x + c$

10)  $p^2 + 24p + c$

11)  $p^2 + 30p + c$

12)  $n^2 - 20n + c$

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

13)  $k^2 - 16k = -39$

14)  $m^2 + 2m = 8$

15)  $k^2 + 10k = -24$

16)  $x^2 + 2x = 48$