Algebra 1 Name_____

10-4b Solving by Completing the Square

Date_____ Period____

Solve each equation by completing the square.

1) $n^2 + 12n + 32 = 0$

2) $k^2 - 8k - 49 = 0$

3) $n^2 + 10n + 21 = 0$

4) $x^2 - 10x - 2 = 0$

5) $n^2 - 4n - 3 = 9$

6) $k^2 - 8k - 42 = 6$

7) $9v^2 + 18v - 52 = 3$

8) $10a^2 - 20a - 20 = 10$

9) $r^2 + 8r + 7 = 0$

10) $v^2 - 10v + 5 = 0$

11) $n^2 + 6n + 5 = 0$

12) $n^2 - 6n - 40 = 0$

13) $b^2 - 19 = 18b$

14) $a^2 = -2a + 3$

15) $n^2 = 4n + 12$

16) $r^2 - 61 = 2r$