Math 3 Name_____ ID: 1

# Completing the Square

Date_____ Period____

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

1) $a^2 + 16a + 47 = -8$

2) $r^2 + 8r - 35 = -2$

3) $x^2 + 8x - 13 = -4$

4) $b^2 + 6b - 15 = -10$

5) $x^2 - 2x - 99 = -10$

6) $x^2 + 18x - 94 = -6$

7) $x^2 - 6x - 62 = 8$

8) $b^2 - 10b - 1 = 10$

9) $x^2 + 8x - 60 = 5$

10) $k^2 + 16k + 26 = -2$

11) $b^2 - 16b + 7 = 3$

12) $n^2 - 16n + 68 = 5$

13) $x^2 + 16x + 35 = -4$

14) $x^2 - 16x - 60 = -3$

15) $7x^2 - 14x - 23 = 5$

16) $3x^2 - 6x - 62 = 10$