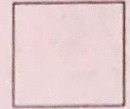


Name: _____

Unit 8: Quadratic Equations



Date: _____ Bell: _____

Homework 8: Solving Quadratics by
Completing the Square (Day 1)

**** This is a 2-page document! ****

Factor the perfect square trinomial, then solve the quadratic equation by square roots.

1. $x^2 + 18x + 81 = 1$

2. $x^2 - 10x + 25 = 64$

3. $x^2 - 16x + 64 = 4$

4. $x^2 + 2x + 1 = 49$

Solve each quadratic equation by completing the square. Simply all irrational solutions.

5. $x^2 - 6x - 16 = 0$

6. $x^2 - 20x + 19 = 0$

7. $x^2 + 4x + 14 = 46$

8. $x^2 + 14x + 32 = -8$

9. $x^2 + 41 = 12x + 9$

10. $x^2 + 8x - 12 = 21$

11. $x^2 - x - 22 = x - 7$

12. $x^2 + 10x + 39 = 23$

13. $x^2 - 16x + 74 = 2x$

14. $x^2 = 8x - 4$

15. $x^2 - 4x - 7 = 21$

16. $x^2 + 12 = 38 - 16x$