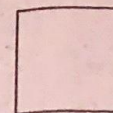


Name: _____

Unit 4: Solving Quadratic Equations



Date: _____ Bell: _____

Homework 3: Solving Quadratics by Square Roots

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

Directions: Solve each equation using the square roots method.

1. $x^2 - 100 = 0$

2. $x^2 + 4 = 0$

3. $5x^2 - 11 = 234$

4. $\frac{1}{3}x^2 + 14 = 26$

5. $2x^2 + 71 = -163$

6. $2x^2 + 27 = -13$

7. $x^2 - 1 = 39$

8. $-3x^2 = 150$

9. $18 - x^2 = 39$

10. $3x^2 + 4 = 166$

11. $4x^2 - 3 = 481$

12. $\frac{1}{4}x^2 - 7 = 25$

13. $-\frac{4}{3}x^2 - 15 = 201$

14. $8x^2 - 3 = 597$

15. $2x^2 - 3 = 49$

16. $x^2 + 100 = 0$

17. Which of the equations below can be solved by square roots? How would you solve the other equation? Explain your reasoning. Give the solutions to both equations.

Equation A: $x^2 - 9x = 0$

Equation B: $x^2 - 9 = 0$
