

Name _____

Date _____

Practice Set 10.3
Using the Quadratic Formula

Solve each equation using the quadratic formula. Simplify irrational solutions, if possible.

1. $x^2 + 6x + 9 = 0$ 1. _____

2. $x^2 + 4x - 12 = 0$ 2. _____

3. $2x^2 + 7x = -6$ 3. _____

4. $3x^2 + 2x = 5$ 4. _____

5. $2x^2 + 9x + 4 = 0$ 5. _____

6. $x^2 - 41 = 0$ 6. _____

7. $5x^2 + 2x - 1 = 0$ 7. _____

8. $x^2 + 7x = 3$ 8. _____

9. $3x^2 + 1 = 5x$ 9. _____

10. $x^2 - 6x + 5 = 0$ 10. _____

11. $x^2 + 8x + 7 = 0$ 11. _____

12. $2x^2 = -5x + 5$ 12. _____

Name _____

Date _____

Solve each equation by the method of your choice. Simplify irrational solutions, if possible.

13. $4x^2 = 100$ 13. _____

14. $(3x + 2)^2 = 12$ 14. _____

15. $3x^2 = 120$ 15. _____

16. $(5x - 1)^2 = 32$ 16. _____

17. $2x^2 - 4x + 1 = 0$ 17. _____

18. $x^2 + 4x = 2$ 18. _____

19. $5x^2 - x - 2 = 0$ 19. _____

20. $\frac{1}{2}x^2 - \frac{1}{3}x = \frac{5}{6}$ 20. _____