Algebra 2: 4.8 Solve Quadratic Equations (any method) Worksheet

1. Solve: \( x^2 - 18x + 81 = 0 \)

2. What are the solutions of the equation?
   \( x^2 = 11x - 24 \)

3. What are the solutions of the equation?
   \( x^2 - 10x + 24 = 0 \)

4. Solve: \( x^2 - 2x - 8 = 0 \)

Find the zeros of the function.

5. \( y = x^2 - 11x + 18 \)

Solve.

6. \( x^2 - 6x = 0 \)

7. \( 4x^2 - 12x - 16 = 0 \)

8. \( 3x^2 = x + 14 \)

9. \( 63x^2 + 76x + 21 = 0 \)
Solve for $x$.

10. $3x^2 = 147$

Solve.

11. $3x^2 - 9 = 3$

12. $-3(x + 9)^2 = -63$

13. Solve the equation. $-x^2 + 4 = 2x^2 - 5$

14. Solve the equation. $x^2 - 7 = 14 - 2x^2$

Solve.

15. $(8x + 5)^2 = 63$

16. Solve the equation. $x^2 - x + 2 = 0$

17. Solve the equation. $2x^2 + x + 3 = 0$

18. Solve the equation. $2x^2 - x + 2 = 0$

Solve.

19. $3x^2 + x = -9$

20. $-5x^2 - 3x = 4$