

Name: _____

Practice Assignment

Date: _____ Block: _____

Solve the quadratic equation to find its zeros.

1. $(x + 5)(x - 2) = 0$

2. $2x^2 - 11x - 21 = 0$

3. $x^2 - 15x + 36 = 0$

4. $-30x^2 = -25x$

5. $(x - 8)(2x - 1) = 0$

6. $3x^2 - 81x = 0$

7. $x^2 - 48 = 2x$

8. $5x^2 + 9x = 2$

9. $5x^2 - 19x - 26 = 4$

10. $x^2 - 6x + 9 = 0$

11. $x^2 - 6x = 0$

12. $2x^2 - 7x - 4 = 0$

13. Given that the solutions to a quadratic equation are $x = -6$ and $x = 8$, write an equation in factored form AND standard form that would represent those solutions.

14. What are the factors AND zeros of $x^2 + 4x - 21 = 0$?

15. Which equation only has -5 as its only zero? Show work to prove the answer you selected.

A. $y = x^2 + 9x + 20$

B. $y = x^2 - 8x + 15$

C. $y = x^2 + 10x + 25$

D. $y = x^2 - 25$

16. When an equation is factored and the factored form results in a binomial squared, will it ever have two different zeros? Explain why or why not.