

- The inverse of squaring a number is _____.
- What is the standard form of a quadratic equation?
- Solve $x^2 = 49$.
- What are the solutions of $(x + 2)^2 = 16$?
- Solve $-2(x - 4)^2 + 3 = -125$
- Solve $4x^2 = 14x + 8$
- Which are the solutions of $x^2 - 2x - 24 = 0$?
- Solve $x^2 + 10x = 39$.
- If the discriminant is negative, the equation has _____.
- How many real solutions does the equation below have?
$$8m^2 + 2m + 3 = 0$$
- What values of a, b, and c should be substituted into the quadratic formula to solve $6x^2 - 4x + 3 = 0$?
- Which formula is used to “complete the square”?
- What number should be added to both sides of the equation to complete the square on $x^2 - 12x = 34$?

14. What are the solutions of $2v^2 + 128 = 0$?

15. If a quadratic equation has two solutions, its graph would cross the x-axis _____.

WRITTEN RESPONSE (5 pts each on test)

16. Solve using square roots.

$$3(x + 2)^2 + 4 = 112$$

18. Solve using the quadratic formula.

$$-3x^2 + 5x + 2 = 0$$

17. Solve by completing the square.

$$x^2 - 4x = 12$$