

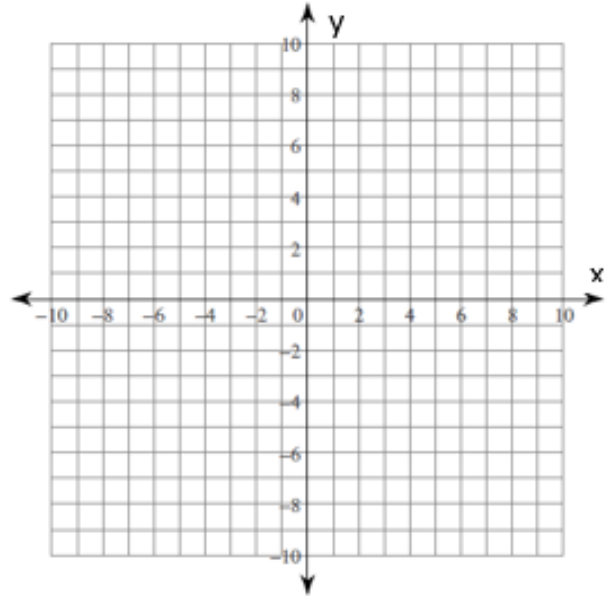
ALGEBRA 1
WS 9.3

Name _____
Date _____

1. Graph the function. State the number of solutions, and solve the equation.
If the equation has no real-number solution, write "no solution."

$x^2 - 9 = 0$ a = _____, b = _____, c = _____

Axis of Symmetry:



Vertex:

SOLUTION: _____

y-intercept:

2. Solve the same problem as above $x^2 - 9 = 0$ using square roots.

Solve each equation by finding square roots.

3. $x^2 - 49 = 0$

4. $2m^2 - 128 = 0$

5. $\frac{1}{9}y^2 - 1 = 0$

6. $5p^2 + 45 = 0$

7. $\frac{1}{2}a^2 - 8 = 0$

8. $-\frac{3}{4}x^2 + 5 = -22$

9. You are mowing a square lawn that has an area of 9300 ft^2 . Approximate the side length of the lawn to the nearest tenth of a foot.