

Quadratics Part 2 Test Review Day 1

Solve each equation using the best method.

1) $7b^2 - 21b = 280$

2) $5n^2 - 12n - 4 = -9n$

Quadratic Word Problems

- Draw a picture with labels
- Write an equation
- Solve the equation
- Answer the question

3. An object is launched at 19.6 meters per second (m/s) from a 58.8-meter tall platform.

The equation for the object's height s at time t seconds after launch is:

$$s = -4.9t^2 + 19.6t + 58.8, \text{ where } s \text{ is in meters.}$$

a. When does the object strike the ground?

b. What is the maximum height of the object?

4. The base of a triangle is one more than four times the height. Determine the dimensions that will give a total area of 9 cm^2 .
5. The length of a rectangular flower garden is 5 feet more than its width. If the area of the garden is 104 square feet, find the dimensions of the flower garden.