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## Quadratic Formula Worksheets

- 1) Find the sum of the roots for the following quadratic equation:

$$-3y^2 - y + 2 = 0$$

- 2) Find the nature of the roots for the given equation:

$$\frac{1}{4}z^2 - \frac{2}{3}z + 1 = 0$$

- 3) Find the roots using the quadratic formula.

$$(x-3)^3 - 9 = x^3$$

- 4) Find the Discriminant.

$$m^2 = 10m$$

- 5) Find the roots of the given equation:

$$y^2 + 10 = 11y$$

- 6) Solve for  $r$ :

$$2(r+5)^2 - 32 = 0$$

- 7) Two square shaped swimming pools need to be constructed by the local civic body for athletes training. The difference between the perimeters of the two pools is 16 ft. If the sum of the areas of the two pools be  $730 \text{ ft}^2$ , find the side length of the smaller pool.

- 8) A cruise ship is selling tickets for a 5 days trip. Total revenue of \$3300 was generated when a certain number of tickets were sold. If 22 more tickets were sold, each person would have got a discount of \$200 to generate the same revenue. Find the number of tickets sold.



- 9) The difference between the squares of the two numbers is 104. Nine more than twice the smaller number is 5 more than the larger number. Find the larger number.
- 10) If the speed of a vehicle decreases by 10mph, it takes 2 hours more than what it usually takes to cover a distance of 700 miles. Find the time it usually takes.

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in an interesting way,  
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## Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	$\frac{-1}{3}$
2)	Roots are real and distinct
3)	$\frac{3+7i}{2}, \frac{3-7i}{2}$
4)	100
5)	1,10
6)	-9,-1

7)	17 <i>ft</i>
8)	11
9)	15
10)	35 miles per hour

## FUN FACT

1. The nature of the roots of a quadratic equation is found by finding the discriminant of a quadratic equation. For any quadratic equation,

$$ax^2 + bx + c = 0$$

Discriminant,  $D = b^2 - 4ac$

2. Roots are real or imaginary, and distinct or equal based on the Discriminant values.

