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## Quadratic Equation Worksheets

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

$$12z^2 + 12z + 1 = 0$$

- 2) Find the roots:

$$3(x-1)^2 - 5(x-1) - 2 = 0$$

- 3) Find the Discriminant for the following quadratic equation using the quadratic formula:

$$0.5y^2 - 6y + 4 = 0$$

- 4) Find the sum of the roots:

$$4s^2 - 4s = -1$$

- 5) Using the quadratic formula, find the Discriminant of the following quadratic equation:

$$5\sqrt{2}x^2 - 3x - \sqrt{2} = 0$$

- 6) If  $a$  and  $b$  are the roots of the given quadratic equation, find the value of  $\frac{b}{a}$ .

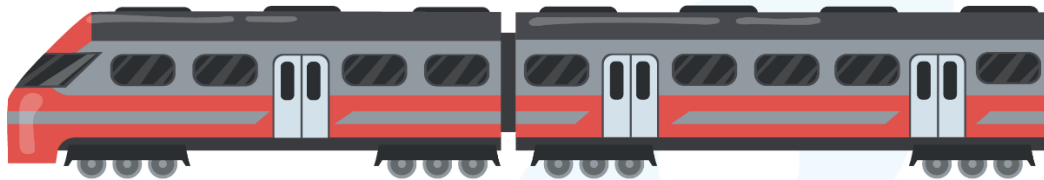
$$100k^2 - 20k + 1 = 0$$

- 7) If six times the sum of twice a number and 1 is equal to  $-6$  times its square, then find the number(s).

- 8) Sharon took an integer. If she increases the integer by 54 and then times the result by 9, she found that the result is equal to the square of the integer she took. Find the integer.

9) The sum of the square of two consecutive integers equals 365. Find the difference between them.

10) If the speed of a train is increased by 4 miles per hour from its original speed, then it takes 1 hour less to cover a distance of 288 miles. Find its original speed.



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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

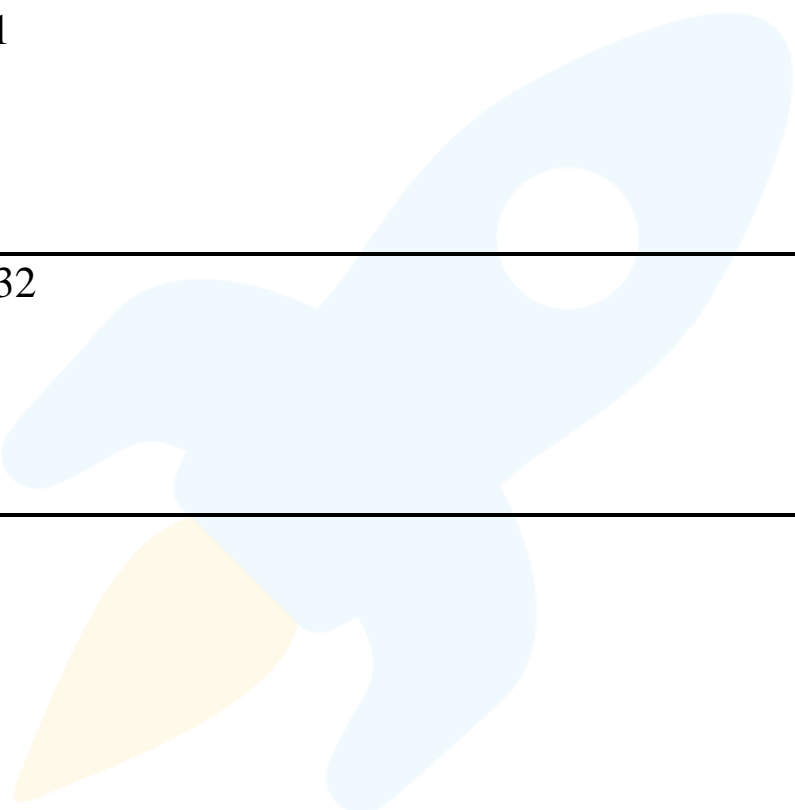
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**ANSWERS**

1)	Roots are real and distinct
2)	$2, \frac{5}{3}$
3)	28
4)	1
5)	49
6)	1

7)	-1
8)	27
9)	1
10)	32



## FUN FACT

1. The degree of a quadratic equation determines the number of roots of a quadratic equation.
2. There are **2** roots of a quadratic equation.
3. The methods to find the roots of a quadratic equations are:
  - a) Factorization method
  - b) Completing the square method

