



# QUADRATIC EQUATIONS

$b^2 - 4ac$   
(Discriminant)

10 MCQs for Class 10

Choose the correct option.



1

Which of the following is a quadratic equation?



- A  $x + 5 = 0$
- B  $x^2 - 4x + 3 = 0$
- C  $\frac{1}{x} + 2 = 0$
- D  $x^3 - 2x = 0$

6

The equation  $x^2 - 4 = 0$  has roots:

- A 2, -2
- B 4, 1
- C -4, 1
- D 0, 4



2

The roots of  $x^2 - 5x + 6 = 0$  are:

- A 2, 3
- B 1, 6
- C -2, -3
- D 0, 6



7

The nature of roots of  $x^2 + 2x + 5 = 0$  is:

- A Two distinct real roots
- B Equal real roots
- C No real roots
- D One real root



3

The sum of the roots of  $x^2 - 7x + 10 = 0$  is:

- A 10
- B 7
- C -7
- D 5



8

If one root of  $x^2 - 8x + 15 = 0$  is 3, the other root is:

- A 15
- B 8
- C 5
- D 12



4

The product of the roots of  $x^2 - 9x + 20 = 0$  is:

- A 9
- B 20
- C -20
- D 29



9

Which of the following equations has equal roots?

- A  $x^2 - 6x + 9 = 0$
- B  $x^2 - 5x + 6 = 0$
- C  $x^2 - 4x + 3 = 0$
- D  $x^2 + x + 1 = 0$



5

The discriminant of  $x^2 - 6x + 9 = 0$  is:

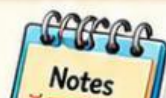
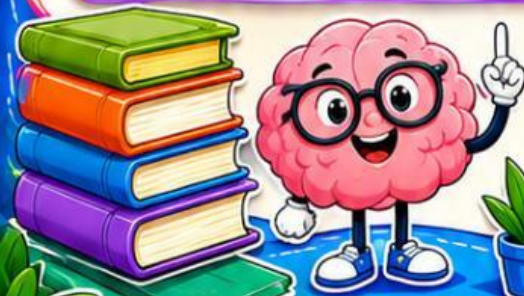
- A 0
- B 36
- C 9
- D 18



10

The roots of  $2x^2 - 7x + 3 = 0$  are:

- A 3 and  $\frac{1}{2}$
- B 1 and 3
- C 2 and 3
- D  $\frac{1}{2}$  and 2



Think Smart,  
Solve Quadratic!



Be Confident  
You Can! 😊