QUADRATIC EQUATIONS

10 MCQs for Class 10

Choose the correct option.

$ax^2+bx+c=0$
$a \neq 0$

b^2-4ac (Discriminant)

1 Which of the following is a quadratic equation?

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

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

A 2, 3
B 1, 6
C −2, −3
D 0, 6

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

A 10
B 7
C −7
D 5

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

A 9
B 20
C −20
D 29

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

A 0
B 36
C 9
D 18

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

A 2, −2
B 4, 1
C −4, 1
D 0, 4

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

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

A 15
B 8
C 5
D 12

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 $x^2+x+1=0$

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

Notes

Think Smart, Solve Quadratic!

Be Confident You Can!

Ramaswamy Kodam