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## CBSE Class 10- Mathematics: Chapter - 4 Quadratic Equations Part 5

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## Question 4:

Find the nature of root

$$
2 x^{2}+3 x-4=0
$$

## Answer:

Root are real and unequal

## Question 5:

Find the value so that quadratic equation $3 \times 2-k x+38=0$ has equal root
Answer:

$$
5 \pm 18
$$

## Question 6:

Determine whether given value of is a solution or not
(1) $x^{2}-3 x-1=0: x=1$

Answer:
Not a solution
Level 2 (02 Marks)

## Question 1:

Solve by quadratic equation $16 \times 2-24 x-1=0$ by using quadratic formula
Answer:

## Question 2:

Determine the value of for which the quadratic equation $2 x 2+3 x+k=0$ have both roots real.

## Answer:

$$
k \leqslant \frac{9}{8} x=\frac{3+\sqrt{10}}{4}
$$

$$
=\frac{3-\sqrt{10}}{4}
$$

## Question 3:

Find the roots of equation $2 x 2+x-6=0$

## Answer:

$$
x=2, x=\frac{3}{2}
$$

## Question 4:

Find the roots of equation $x-\frac{1}{x}=3 x \neq 0$

## Answer:

$$
x=\frac{3}{2}
$$

Level 3 (03 Marks)

## Question 1:

The sum of the squares of two consecutive positive integers is 265 . Find the integers.

## Answer:

Number are 11,12
Question 2:
Divide ${ }_{39}$ into two parts such that their product is 324

## Answer:

27, 12

## Question 3:

The sum of number and its reciprocals is. Find the number.

## Answer:

$4 \frac{1}{4}$

## Question 4:

The length of rectangle is 5 cm more than its breadth if its area is $150 \mathrm{Sq} . \mathrm{cm}$
Answer:

$$
10 \mathrm{~cm}, 15 \mathrm{~cm}
$$

## Question 5:

The altitude of a right triangle is 7 cm less than its base. If the hypotenuse is 13 cm . Find the other two sides

Answer:

12 cm and 5 cm

