

Q.2 Write short answers to any eight questions from the following questions.

1. Solve the quadratic equation $x^2 - 3x - 18 = 0$ by quadratic formula.

Sol. $x^2 - 3x - 18 = 0$
 $a = 1, b = -3, c = -18$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-(-3) \pm \sqrt{9 - 4(1)(-18)}}{2}$$

$$x = \frac{3 \pm \sqrt{9 + 72}}{2} = \frac{3 \pm \sqrt{81}}{2}$$

$$x = \frac{3 \pm 9}{2} \Rightarrow x = \frac{12}{2} = 6$$

$$x = \frac{-6}{2} = -3$$

2. Discuss the nature of the roots of the equation $2x^2 - 7x + 3 = 0$.

Sol. Here, $a = 2, b = -7, c = 3$
 $Disc = b^2 - 4ac$
 $= (-7)^2 - 4(2)(3)$
 $= 49 - 24$
 $= 25 = 5^2$

Hence roots of given equation are rational and unequal.

3. For what value of K the sum of roots of $3x^2 + Kx + 5 = 0$ may be equal to the product of roots.

Sol. $3x^2 + Kx + 5 = 0$
 $a = 3, b = K, c = 5$

sum of roots = Product of roots (given)

4. Find the 7th term of an A.P. 1, 4, 7,

Sol. 1, 4, 7, 7 term
 $a_1 = 1, a_2 = 4, d = 4 - 1 = 3, d = 3$
 $a_n = a_1 + (n - 1)d$
 $a_7 = a_1 + 6d = 1 + 6(3)$
 $a_7 = 1 + 18 = 19$

5. Find the sum of the series 3 + 11 + 19 + to 16 terms.

Sol. $a = 3, d = 11 - 3 = 8, n = 16$
 $S_n = \frac{n}{2} [2a + (n - 1)d]$
 $S_{16} = \frac{16}{2} [2(3) + (16 - 1)8]$
 $= 8 [6 + 15(8)] = 8 [6 + 120] = 8 \times 126$
 $S_{16} = 1008$

6. Find the 6th term in G.P 1, 3³, 3⁹,

Sol. $a_1 = 1, a_2 = 3^3 = 27, a_6 = ?$
 $r = \frac{a_2}{a_1} = \frac{27}{1}$
 $a_n = a_1 r^{n-1} \Rightarrow a_6 = a_1 r^5 = 1(27)^5 = 27^5$

7. Find the geometric mean between $\frac{4}{3}$ and 243.

Sol. Here $a = \frac{4}{3}, b = 243$
 $G.M = \pm \sqrt{ab} = \pm \sqrt{\frac{4}{3}(243)} = \pm \sqrt{4(81)}$
 $G.M = \pm \sqrt{324} = \pm 18$

8. Write the formulas of sum of the first n terms of a geometric sequence.

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Lalit Jain

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