

14. Solve $6x^6 - 25x^5 + 31x^4 - 31x^2 + 25x - 6 = 0$

Sol: The degree of the given equation is $n=6$, which is even. Also $a_k = -a_{n-k} \forall k=0,1,2,3,4,5,6$

Hence the given equation is a reciprocal equation of class II of even degree

Hence $1, -1$ are the roots of $6x^6 - 25x^5 + 31x^4 - 31x^2 + 25x - 6 = 0$

On dividing the expression by $(x-1), (x+1)$, we have

1	6	-25	31	0	-31	25	-6
	0	6	-19	12	12	-19	6
-1	6	-19	12	12	-19	6	0
	0	-6	25	-37	25	-6	
	6	-25	37	-25	6	0	

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Now, we solve the S.R.E $6x^4 - 25x^3 + 37x^2 - 25x + 6 = 0$

[2 Marks]

On dividing this equation by x^2 , we get

$$6x^2 - 25x + 37 - \frac{25}{x} + \frac{6}{x^2} = 0 \Rightarrow 6\left(x^2 + \frac{1}{x^2}\right) - 25\left(x + \frac{1}{x}\right) + 37 = 0 \quad \dots(1)$$

[1 Mark]

Put $x + \frac{1}{x} = y$, so that $x^2 + \frac{1}{x^2} = \left(x + \frac{1}{x}\right)^2 - 2 = y^2 - 2$

$$\therefore (1) \Rightarrow 6(y^2 - 2) - 25(y) + 37 = 0 \Rightarrow 6y^2 - 12 - 25y + 37 = 0$$

$$\Rightarrow 6y^2 - 25y + 25 = 0 \Rightarrow 6y^2 - 15y - 10y + 25 = 0 \Rightarrow 3y(2y - 5) - 5(2y - 5) = 0$$

[1 Mark]

$$\Rightarrow (2y - 5)(3y - 5) = 0 \Rightarrow y = 5/2 \text{ (or) } 5/3$$

If $y = \frac{5}{2}$ then $x + \frac{1}{x} = \frac{5}{2} = 2\frac{1}{2} = 2 + \frac{1}{2} \Rightarrow x = 2 \text{ (or) } \frac{1}{2}$

[1 Mark]

If $y = \frac{5}{3}$ then $x + \frac{1}{x} = \frac{5}{3} \Rightarrow \frac{x^2 + 1}{x} = \frac{5}{3}$

[1 Mark]

$$\Rightarrow 3x^2 + 3 = 5x \Rightarrow 3x^2 - 5x + 3 = 0$$

$$\Rightarrow x = \frac{5 \pm \sqrt{(-5)^2 - 4(3)(3)}}{6} = \frac{5 \pm \sqrt{25 - 36}}{6} = \frac{5 \pm \sqrt{-11}}{6}$$

[1 Mark]

$$\therefore x = \frac{5 \pm \sqrt{11}i}{6}$$

Hence all the six roots of the given equation are $1, -1, 2, \frac{1}{2}, \frac{5 \pm \sqrt{11}i}{6}$

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RJ Alexander



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