Q.No.	DAY - 19
106	**EXERCISE 3.5** 2. Examine for the rational roots of (i) $2x^3 - x^2 - 1 = 0$ (ii) $x^8 - 3x + 1 = 0$
107	4. Solve : $2\sqrt{\frac{x}{a}} + 3\sqrt{\frac{a}{x}} = \frac{b}{a} + \frac{6a}{b}$
108	5. Solve the equations (i) $6x^4 - 35x^3 + 62x^2 - 35x + 6 = 0$ (ii) $x^4 + 3x^3 - 3x - 1 = 0$
109	7. Solve the equation $6x^4 - 5x^3 - 38x^2 - 5x + 6 = 0$ if it is known that $\frac{1}{3}$ is a solution.
110	**Example 3.30** Show that the polynomial $9x^9 + 2x^5 - x^4 - 7x^2 + 2$ has at least six imaginary roots.
111	**Example 3.31** Discuss the nature of the roots of the following polynomials: (i) $x^{2018} + 1947x^{1950} + 15x^8 + 26x^6 + 2019$ (ii) $x^5 - 19x^4 + 2x^3 + 5x^2 + 11$