ASSIGNMENT

- 1. Find the Maxima and Minima of $y = \frac{1}{r} \frac{1}{1-r}$.
- 2. Find the Maxima and Minima of $y=4x^3-5x^2-13x+9$. Also find its point of inflexion, if any.
- 3. Find the Maxima and Minima of $y = \frac{2x}{3+x^2}$. Also find its point of inflexion, if any.
- 4. Write the Maclaurin's Series of $f(x) = \log(1+x^2)$ upto first four non-zero terms.
- 5. Express the function $y = \frac{1}{4}x^4 4x^2 + 6x 4$ into its Taylor's series at x = -1.
- 6. If the average revenue function is given by AR=10-4q, where q represents the quantity of goods, then calculate the marginal revenue function.
- 7. If the average cost function is given by $AC = 2q^2 5q + 24$, where q represents the quantity of goods, then calculate the marginal cost function and also find the rate of change of average cost.