- 1. If $f(x) = 3x^5 x^3 + 2x 5$, then Write a MATLAB code to find the value of f(4) and execute.
- 2. Write a MATLAB code to find the solution of $x^2 x 6 = 0$ and execute.
- 3. Write a MATLAB code to find the following and execute.
 - (i) $\cos \frac{\pi}{3}$ (ii) $\sqrt{37}$ (iii) $\tan^{-1}(1)$ (iv) $\log_{10} 2$ (v) e^3
- 4. Write a MATLAB code to find the following and execute.
 - (i) $\lim_{x \to 2} \left(\frac{3x^2 5x + 7}{x + 1} \right)$ (ii) $\lim_{x \to \infty} \left(\frac{5x^2 3x + 1}{2x^2 1} \right)$
- 5. If $f(x) = 6x^3 5x^2 + 8x + 4$, then Write a MATLAB code to find the following and execute.
 - (i) f'(x)
 - (ii) f''(x)
- 6. Write a MATLAB code for plotting e^x , x^2 and x^2+1 in the interval [0, 10] to display in the same window in different locations and execute it.