

LAB-9: Evaluation of improper integrals, Beta and Gamma Functions.

1. Write a python program to evaluate $\int_0^{\infty} e^{-x} dx$.
2. Write a python program to evaluate $\Gamma(5)$ by using definition of gamma function.
3. Write a python program to calculate $\beta(5/2, 7/2)$ and $\Gamma(5/2)$.
4. Write a python program to verify that $\beta(m, n) = \frac{\Gamma(m)\Gamma(n)}{\Gamma(m+n)}$ for $m = 5$ and $n = 7$.