

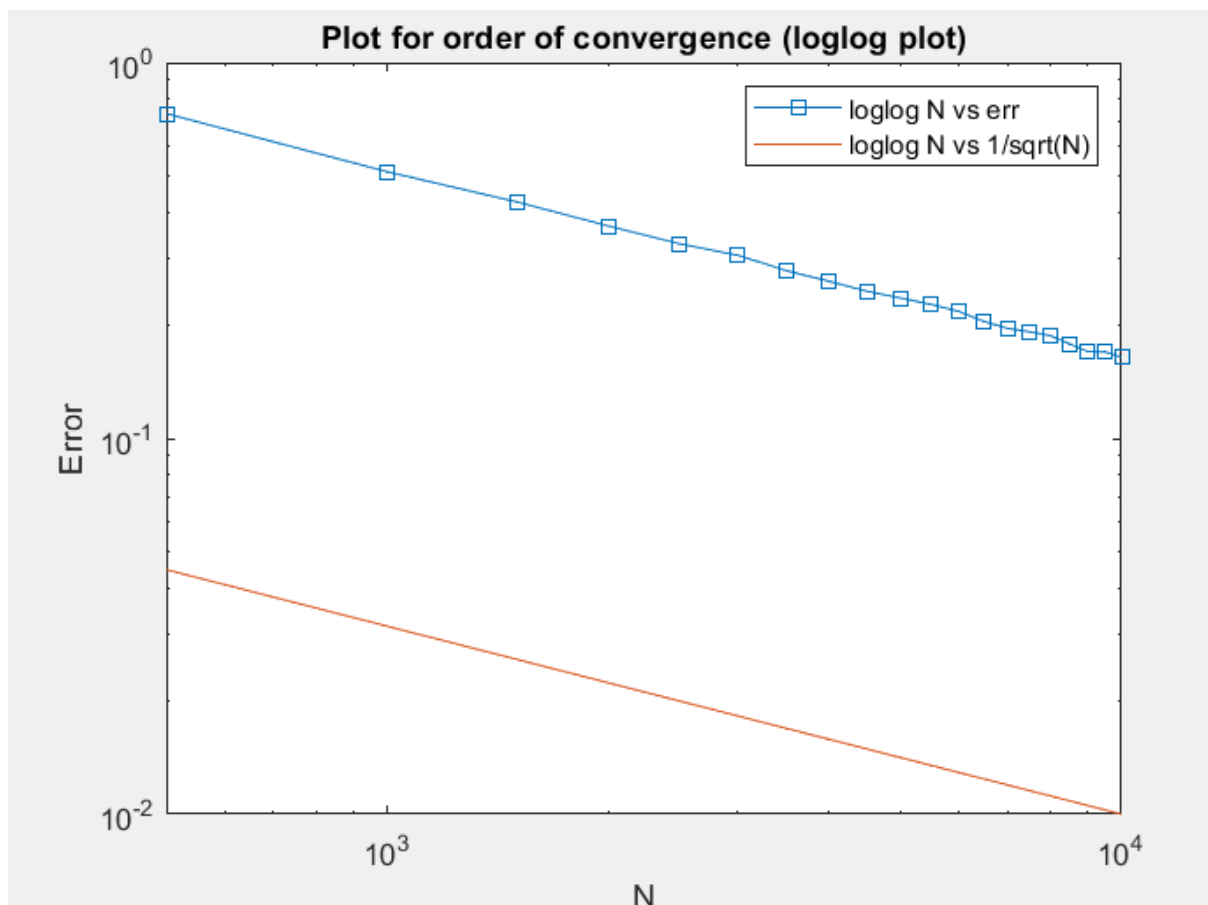
MA473: Computational Finance : Lab 10
Aman Bucha, Roll - 200123006

Question 1:

The exact solution of the Black-Scholes diffusion equation is:

$$X(t) = X(0) \exp((\mu - 0.5\sigma^2)t + \sigma W(t))$$

After solving the SDE using Euler-Maruyama method Scheme, following order of convergence plot was constructed (loglog plot):



Question 2:

