Assignments #05

Differtail Equation

Note: Due date 7 submission is 22/06/2021

Q1. Find interval and radius 7 convergence

(I) $\sum_{k=1}^{\infty} \frac{(-1)^k}{10^k} (x-5)^k$ (II) $\sum_{k=0}^{\infty} k! (x-1)^k$

Q2. Write down the following series in a single power series whose general term involves x^k.

(i) $\sum_{n=2}^{\infty} n(n-1) C_n x^{n-2} + \sum_{n=0}^{\infty} C_n x^{n+2}$

Q3. Solve problems No (15), (22) and (16) Ex 6.2

Q4. Solve problems No (14), (19) and (26)