

⑫ Solve by power Series Method Part-2 Submit upto 1:00 PM  
otherwise will NOT accepted

$$y'' + (1+x^2)y = 0$$

⑬ Using Laplace Transforms to solve the ODE

$$y'' + 3y' + 2.25y = 9x^3 + 64, \quad y(0) = 0, \quad y'(0) = 31.5$$

⑭  $(y-x) \frac{dy}{dx} = (x+y) \frac{dy}{dx}$

⑮ Find orthogonal Trajectory of

$$y = x-1 + C e^{-x}, \quad \text{Where } C \text{ is arbitrary constant.}$$