

Quiz No: 5

Name: _____ ID _____ Section _____ Marks: 8

1. Use variation of parameter method IVP $y'' + 4y = 2x$
2. For $y'' + 4y = \cos x$, find y_p
3. Given $y'' + y = \sin x$, guess the y_p . Do not find constants in y_p .
4. Let $y = c_1e^{-2x} + c_2e^x$ be the general solution of some constant coefficient homogenous differential equation. Construct the differential equation.