

# Assignment-2

EE:1205 (*SignalsSystems*)

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## *Question*

Consider the differential equation

$$\frac{d^2y}{dx^2} + 4x + 2y = 0 \quad \text{for } x \geq 1$$

with initial conditions  $y(1) = 0$  and  $\frac{dy}{dx} = 1$  at  $x = 1$ . The value of  $y$  at  $x = 2$  is .....

(GATE AE 2023)