

Problem Set 1.1

$$\underline{1.} \quad y' + 2 \sin 2\pi x = 0$$

$$y = \frac{\cos 2\pi x}{-2\pi} + C$$

$$\underline{2.} \quad y' + x e^{-x^2/2} = 0$$

$$y = e^{-x^2/2} + C$$

$$\underline{3.} \quad y' = y$$

$$y = e^x + C$$

$$\underline{4.} \quad y' = -1.5y$$

$$y = e^{-1.5x} + C$$

$$\underline{5.} \quad y' = 4e^{-x} \cos x$$

$$y = 2e^{-x} (\sin x - \cos x)$$

$$\underline{6.} \quad y'' = -y$$

$$y = \sin x + C$$

$$\underline{7.} \quad y' = \cosh 5.13x$$

$$y' = \frac{e^{5.13x} + e^{-5.13x}}{2}$$

$$y = \frac{1}{10.26} \left[e^{5.13x} - e^{-5.13x} \right]$$

$$\underline{8.} \quad y''' = e^{-0.2x}$$

$$y = \frac{-1}{0.2 \times 0.2 \times 0.2} e^{-0.2x}$$

$$y = \frac{-1}{0.008} e^{-0.2x}$$

$$\underline{9.} \quad (a) \quad y' + 4y = 1.4 \quad \text{--- (i)}$$

$$y = C e^{-4x} + 0.35, \quad y(0) = 2 \quad \text{--- (ii)}$$

put (ii) in (i)

$$-4C e^{-4x} + 4C e^{-4x} + 1.40 = 1.4$$

$$\Rightarrow \text{L.H.S} = \text{R.H.S}$$

$\therefore y$ is the solution of the ODE

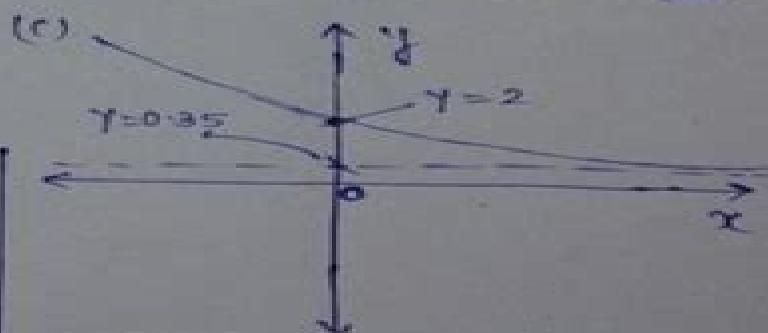
(b) put (ii) in (i)

$$2 = C e^{-0} + 0.35$$

$$\Rightarrow C = 1.65$$

$$\Rightarrow y = 1.65 e^{-4x} + 0.35$$

↓
particular soln.



$$\text{at } x = 0 \Rightarrow y = 2$$

$$\text{at } x \rightarrow \infty \Rightarrow y \rightarrow 0.35$$

Mech 200 Advanced Engineering Mathematics I

Websyllabus

Jianjun Gao



Mech 200 Advanced Engineering Mathematics I Websyllabus:

The book delves into Mech 200 Advanced Engineering Mathematics I Websyllabus. Mech 200 Advanced Engineering Mathematics I Websyllabus is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Mech 200 Advanced Engineering Mathematics I Websyllabus, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 1: Introduction to Mech 200 Advanced Engineering Mathematics I Websyllabus
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 - Chapter 4: Mech 200 Advanced Engineering Mathematics I Websyllabus in Specific Contexts
 - Chapter 5: Conclusion
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