

Problem Set 1-1

1. $y' + 2 \sin 2\pi x = 0$
 $y = \frac{\cos 2\pi x}{\pi} + c$

2. $y' + x e^{-x^2/2} = 0$
 $y = e^{-x^2/2} + c$

3. $y' = y$
 $y = e^x + c$

4. $y' = -1.5y$
 $y = e^{-1.5x} + c$

5. $y' = 4e^{-x} \cos x$
 $y = 2e^{-x} (\sin x - \cos x)$

6. $y'' = -y$
 $y = \sin x + c$

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

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

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

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

9. (a) $y' + 4y = 1.4$ — (i)
 $y = ce^{-4x} + 0.35$, $y(0) = 2$ — (ii)

put (ii) in (i)

$$-4ce^{-4x} + 4ce^{-4x} + 1.40 = 1.4$$

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

$\therefore y$ is the solution of the ODE

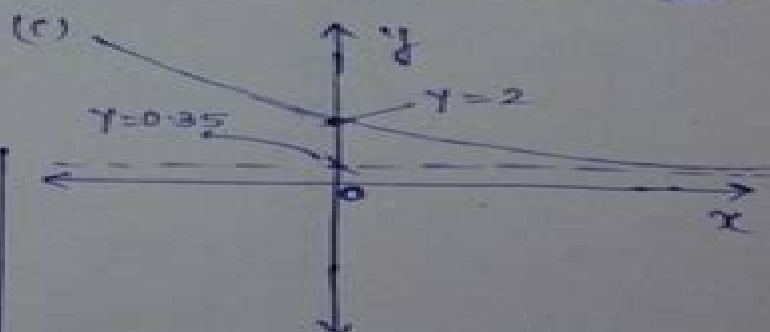
(b) put (iii) in (ii)

$$2 = ce^{-0} + 0.35$$

$$\Rightarrow c = 1.65$$

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

↓
particular soln.



at $x = 0 \Rightarrow y = 2$

as $x \rightarrow \infty \Rightarrow y \rightarrow 0.35$

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