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. $y''' = e^{-0.2x}$

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

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

9. (a) $y' + 4y = 1.4$ ——(i)

$$y = ce^{-4x} + 0.35 \quad , \quad y(0) = 2$$
$$\underset{\text{(ii)}}{} \qquad \underset{\text{(iii)}}{}$$

put (ii) in (i)

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

$$\Rightarrow \quad L.H.S = R.H.S$$

$\therefore$ y is the solution of the ODE

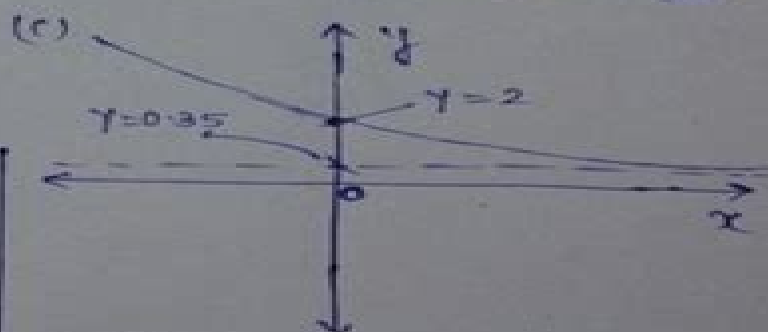(b) put (iii) in (ii)

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

$$\Rightarrow \quad c = 1.65$$

$$\Rightarrow \quad y = 1.65e^{-4x} + 0.35$$
$$\downarrow$$
particular soln.

(c)

at $x = 0 \Rightarrow y = 2$

at $x \to \infty \Rightarrow y \to 0.35$

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**english for iraq 6th preparatory with ahmed salman facebook** - Apr 02 2023
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