

Problem Set 1.1

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

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 L.H.S = R.H.S

$\therefore y$ is the solution of the ODE

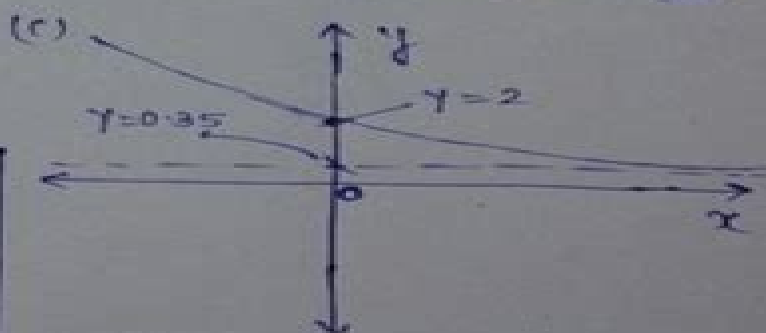
(b) put (ii) in (i)

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

$\Rightarrow c = 1.65$

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

↓
particular soln.



at $x = 0 \Rightarrow y = 2$

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

Mech 200 Advanced Engineering Mathematics I Websyllabus

Puja Mehta



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Table of Contents Mech 200 Advanced Engineering Mathematics I Websyllabus

1. Understanding the eBook Mech 200 Advanced Engineering Mathematics I Websyllabus
 - The Rise of Digital Reading Mech 200 Advanced Engineering Mathematics I Websyllabus
 - Advantages of eBooks Over Traditional Books
2. Identifying Mech 200 Advanced Engineering Mathematics I Websyllabus
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mech 200 Advanced Engineering Mathematics I Websyllabus
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mech 200 Advanced Engineering Mathematics I Websyllabus
 - Personalized Recommendations
 - Mech 200 Advanced Engineering Mathematics I Websyllabus User Reviews and Ratings

- Mech 200 Advanced Engineering Mathematics I Websyllabus and Bestseller Lists
- 5. Accessing Mech 200 Advanced Engineering Mathematics I Websyllabus Free and Paid eBooks
 - Mech 200 Advanced Engineering Mathematics I Websyllabus Public Domain eBooks
 - Mech 200 Advanced Engineering Mathematics I Websyllabus eBook Subscription Services
 - Mech 200 Advanced Engineering Mathematics I Websyllabus Budget-Friendly Options
- 6. Navigating Mech 200 Advanced Engineering Mathematics I Websyllabus eBook Formats
 - ePub, PDF, MOBI, and More
 - Mech 200 Advanced Engineering Mathematics I Websyllabus Compatibility with Devices
 - Mech 200 Advanced Engineering Mathematics I Websyllabus Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mech 200 Advanced Engineering Mathematics I Websyllabus
 - Highlighting and Note-Taking Mech 200 Advanced Engineering Mathematics I Websyllabus
 - Interactive Elements Mech 200 Advanced Engineering Mathematics I Websyllabus
- 8. Staying Engaged with Mech 200 Advanced Engineering Mathematics I Websyllabus
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mech 200 Advanced Engineering Mathematics I Websyllabus
- 9. Balancing eBooks and Physical Books Mech 200 Advanced Engineering Mathematics I Websyllabus
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mech 200 Advanced Engineering Mathematics I Websyllabus
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mech 200 Advanced Engineering Mathematics I Websyllabus
 - Setting Reading Goals Mech 200 Advanced Engineering Mathematics I Websyllabus
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mech 200 Advanced Engineering Mathematics I Websyllabus
 - Fact-Checking eBook Content of Mech 200 Advanced Engineering Mathematics I Websyllabus
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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