

Problem 10 (Lecture 10): Chapter 10

Consider the IVP $y'' + 2y' + 2y = 0$, $y(0) = 1$, $y'(0) = 0$. This IVP has a unique solution on \mathbb{R} . The solution $y(x)$ is the function $y(x) = e^{-x} \cos(x)$. The following statements are true: $y(0) = 1$, $y'(0) = 0$, $y(1) = e^{-1} \cos(1)$, $y'(1) = -e^{-1} \sin(1)$, and $y(2) = e^{-2} \cos(2)$.

(a) Find a general expression for the n th derivative $y^{(n)}(x)$, $y^{(n)}(0)$, and $y^{(n)}(1)$.

(b) Computing on the IVP, verify the uniqueness theorem $y(x) = e^{-x} \cos(x)$.

For this problem, you should use the uniqueness theorem $y(x) = e^{-x} \cos(x)$. Chapter 10.

$y^{(n)}(x) = (-1)^n e^{-x} (\cos(x) - n \sin(x))$

$y^{(0)}(0) = \frac{(-1)^0 e^{-0} (\cos(0) - 0 \sin(0))}{1} = 1$ $y^{(1)}(0) = \frac{(-1)^1 e^{-0} (\cos(0) - 1 \sin(0))}{1} = 0$ $y^{(2)}(0) = \frac{(-1)^2 e^{-0} (\cos(0) - 2 \sin(0))}{1} = 1$

$y^{(0)}(1) = \frac{(-1)^0 e^{-1} (\cos(1) - 0 \sin(1))}{1} = e^{-1} \cos(1)$ $y^{(1)}(1) = \frac{(-1)^1 e^{-1} (\cos(1) - 1 \sin(1))}{1} = -e^{-1} \sin(1)$

$y^{(2)}(1) = \frac{(-1)^2 e^{-1} (\cos(1) - 2 \sin(1))}{1} = e^{-1} (\cos(1) - 2 \sin(1))$

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