

Q3.1 The asymptotic solution of $y' = -2xy$, $y(0) = 2$ is $y = 2e^{-x^2}$. Derive it and display a few answer checks

Solution

$$y' + 2xy = 0$$

$$\frac{(xy)'}{W} = 0$$

$$(Wxy)' = 0$$

$$Wxy = c$$

$$y = c e^{-x^2}$$

$$2 = c e^0$$

$$y = 2e^{-x^2}$$

Answer check

$$\begin{aligned} \text{LHS} &= y' \\ &= (2e^{-x^2})' \\ &= 2(-2x)e^{-x^2} \\ &= (-2x)2e^{-x^2} \\ &= (-2x)y \\ &= \text{RHS} \end{aligned}$$

$$\begin{aligned} \text{LHS} &= y(0) \\ &= 2e^{-0^2} \big|_{x=0} \\ &= 2e^0 \\ &= 2 \\ &= \text{RHS} \end{aligned}$$

std form $y' + p(x)y = r(x)$

W = integrating factor $e^{\int p(x) dx}$
 $W = e^{x^2}$

assumptions

$$1/W = e^{-x^2}$$

use $y(0) = 2$

candidate solution

$$\text{use } (e^x)' = e^x$$

DE verified

IC verified

Grade 11 Maths Exam Papers And Memos

Puja Mehta



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