

# MAT 275: Modern Differential Equations

## Test 1 Review

Instructor: Jeremiah Jones

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Solve each of the following initial value problems.

1.  $\frac{dy}{dx} - y = 2te^t$ ,  $y(0) = 1$

Answer:  $y(t) = e^t(t^2 + 1)$

2.  $\frac{dy}{dx} = (1 - 2x)y^2$ ,  $y(0) = -1/6$

Answer:  $y(t) = -(t - t^2 + 6)^{-1}$

3.  $\frac{dy}{dx} = \frac{2y^4 - e^t}{y - 5}$ ,  $y(0) = 1$

Answer:  $y(t) = \frac{1}{3}[5 - \sqrt{25 - 4(e^t - t^2 + 3)}]$

4.  $t\frac{dy}{dx} + 2y = t^2 - t + 1$ ,  $y(1) = 0$

Answer:  $y(t) = t^2/4 - t/3 + 1/2 - 5/(12t^2)$

5.  $\sin(2x)dx + \cos(3y)dy = 0$ ,  $y(\pi/2) = \pi/6$

Answer:  $y(t) = \frac{1}{3} \sin^{-1}(\frac{2}{3} \cos(2x) + \frac{2}{3})$

6.  $t^2 \frac{dy}{dx} + 4t^2 y = e^{-t}$ ,  $y(-1) = 0$

Answer:  $y(t) = -t^{-4}(1 + t)e^{-t}$

7.  $\frac{dy}{dx} + \frac{2y}{t} = \frac{\cos(t)}{t^2}$ ,  $y(\pi) = 0$

Answer:  $y(t) = \sin(t)/t^2$

8.  $\frac{dy}{dx} = \frac{t(t^2 + 1)}{y}$ ,  $y(0) = -1/\sqrt{2}$

Answer:  $y(t) = -(t^4/4 + t^2/2 + 1/4)^{1/4}$

# Modern Differential Equations

**Patrick Vollmar**



## **Modern Differential Equations:**

## Decoding **Modern Differential Equations**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Modern Differential Equations**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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