

MAT 275: Modern Differential Equations
Test 1 Review
Instructor: Jeremiah Jones

Solve each of the following initial value problems.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Modern Differential Equations

JA Banks



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