

Yıldız Teknik Üniversitesi Elektrik-Elektronik Fakültes Bilgisayar Mühendisliği Bölümü

BLM 2642

Bilgisayar Mühendisleri için Diferasniyel Denklemler

Öğr. Gör. Dr. Ayşe DALGALI Homework 2

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$$\frac{dt}{dt}$$
 +2y = e^t

$$\sum_{i=1}^{n} \frac{S^{n(i)}}{n} = e^{\sum_{i=1}^{n} t}$$

$$\frac{e^{2t}}{3}$$
 + $\frac{e^{3t}}{3}$

- . y . J C

Answer 3)

$$\frac{\partial M}{\partial y} = \frac{\partial N}{\partial x} - \frac{\chi^2 + y}{\partial y} = \frac{\chi^2 + y}{\partial y}$$

$$\frac{x^{3}}{3} + xy + c(y) = \frac{y^{3}}{3} + xy + c(x)$$

$$C(y) = \frac{y^{3}}{3} + xy + \frac{y^{3}}{3} + xy + \frac{y^{3}}{3} = K$$

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Answer 4)

$$\frac{dy}{dx} + y = xy$$

$$V = y^{-1}$$

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$$y' + \rho(x) \cdot y = \Omega(x) \cdot y'$$

$$\rho(x) = 1 \quad \Omega(x) = x \quad n = 2$$

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$$y = +y^{2} + \frac{dv}{dx} \cdot y^{2}$$

$$0 \neq v = e^{-x}$$

$$J = 4^{2} \left(x + \frac{dv}{dx} \right)$$

$$V = x + 1 + c.e^{x}$$

$$\frac{1}{y} = x + \frac{dv}{ct}$$

$$\frac{1}{(-1, -x)}$$

$$V = x + \frac{dv}{d\tau}$$

$$\rho(x) = -1$$

$$\rho(x) = -7$$

4
$$M \cdot V_{\epsilon} \int -1.M \Rightarrow e^{x} \cdot V = \int -x.e^{-x}$$

$$\frac{dy}{dt} = 2t \qquad \int dy = \int 2t \cdot dt = \int \frac{|y(t)|}{|y(t)|} = t^{2} + 3$$

$$y = t^{2} + C$$

$$y(0) = 0 + C = 3$$

Answer 6)

$$\int_{e^{\epsilon}} e^{-1t} + (\rho_{o} + 1)$$

Avsuer 8)

$$W_{n+1} = 0.8 w_n = 0.2$$

 $Q_{i} = Q_{i}$

W3=0,8. 1,36-0,2

ω₁ = 2,2 ω₂ = 1,56 ω₈ = 1,048

$$\leftarrow$$