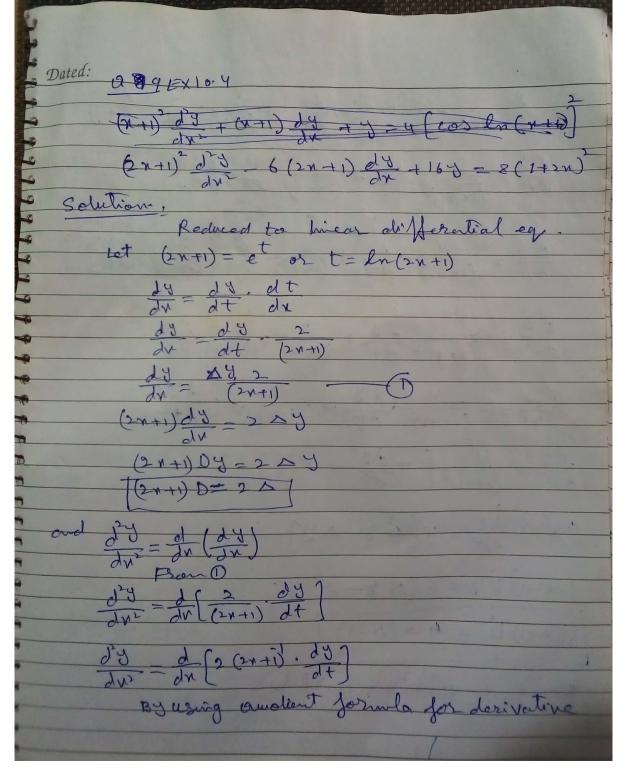


Dated: 06 EX 10.4 24 d3 + 2 x d2 - x dy + x y = This eg is not The cauchy Files eg Sofor cauchy Euler eq. divided by 23 d3 + 2 2 d2 - x dy - y - 1 Reduced to linear differential eq. let r=e or t=lnx 2B=A(A-1) N3D3=A(A-1) (A-2) (D) = (A-1)(A-2) = +2 A(A-1) - A + 1) y = [1(12-31+2)+2(12-0)-x+1]y==t 3-32+2×122-15-11/y-et 3-2- still y = et Δ(Δ-1)-1(Δ-1) y=et (A-1)(A-1)(A+1) y==t (A+1)(A-1) y==t

2
Dated:
For complementary functions
f(1)=0
(x+)(x-1) = 0
$\Delta = -1$ , $  \cdot  $
Hence The complementary function is
4-0-1+010,61
Je = crét e lez + cst)  Now for Jp ( particular integral)
Now for Jp ( Particular was from )
y = 1. F(t)
7 4
(Δ+)(Δ-1) <sup>2</sup> · Φ(Δ)(Δ-α) <sup>2</sup> κ' Φ(α)
+ -t t -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
y = t. et = x. lnn lux
Hence The general Solution is.
y = 4, + 7p
y= e, x' + x(c2+ C3 knx) + lnx Ans
dx Woo
AND THE RESIDENCE OF THE PARTY



Dated:

$$\frac{d^3y}{dx^2} = -2(2x+11)^2(2x)\frac{dy}{dx} + \frac{2}{(2x+1)} \cdot \frac{d}{dx} \left(\frac{dy}{dx}\right)$$

$$\frac{d^2y}{dx^2} = -\frac{4}{(2x+1)^2} \cdot \frac{dy}{dx} + \frac{2}{(2x+1)^2} \cdot \frac{d}{dx} \left(\frac{dy}{dx}\right)$$

$$\frac{d^2y}{dx} = -\frac{4}{(2x+1)^2} \cdot \frac{dy}{dx} + \frac{2}{(2x+1)^2} \cdot \frac{d}{dx} \left(\frac{2x+1}{(2x+1)} \cdot \frac{dy}{dx}\right)$$

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$$\frac{d^2y}{dx^2} = -\frac{4}{(2x+1)^2$$

