UBANI, JOSEPH IKECHUKWU

COMPUTER ENGINEERING

19/ENG02/066

MAT 104

UBANNI, LOSEPHINGE $) <math>y = \frac{C_{32} c_{13} v_{13}}{\ln 2x} u = alx = 2$ Velyda - Uldyda $\frac{d}{dy} = \frac{2x^2 + 3}{dx}$ dx 1= ln2x, dy/dx = 1/200 $\frac{dy}{dx} = \frac{b_{12x}(4x) - (2x^2 + 3)}{(1b_{23})^2}$ $\frac{dy}{dx} = \frac{bx(ax) - (2x^2+3)/2x}{(1nxx)^2}$ $\frac{dy}{dx} = \frac{ax}{ax} - \frac{bx^2+3}{(1nxx)^2}$ $\frac{dy}{dx} = \frac{ax}{ax} - \frac{bx^2+3}{(1nxx)^2}$ at 26 -

dx = 1.6094 2.5902 dy = 6.2133 - 1-1967 $\frac{dy}{dx} = 501657$ $\frac{dy}{dx} = 5.02 + 0 3.5.F$ 2) y = 2x((2x-5) ad point (2,-4) y= 200 m J= 200 m duy = Vdy/dx - Udy/dx dx = Vdy/dx - Udy/dx du = 2dxdy = 2200LOC

202-5 (2) - 22 (22) (22-5)2 $\frac{d9}{dx} = \frac{2x^2 - 10}{2x^4 - 10x^2 + 25}$ mades/de y-Stamber $m = 2x^{2} - 10 - 4x^{2}$ $x^{4} - 10x^{2} + 25$ alx=2 $\frac{(2)^{q} - (0)^{2} + 25}{(2)^{q} - (0)^{2} + 25}$ m = 8 - 10 - 11 = -1816 - 40 + 25 = 1m = -18at x = -4

m= 2(-4)2 -10 - 4(-4)2 (24)4 =10(-4)2 +25 m = 32 = 10 = 64 = -92 256 = 160 + 25 = 121m = -0.35m= -18 and m= -0.35,1 3) $z = 2x^3 \ln g$, $\frac{dz}{dy} = 3$.

= Goralmy dz + 2023 Get Iny de dy - 2x Gx2 hy $\frac{dz}{dy} = \frac{-2z^3/g}{6z^2 \ln g}$ 4) 1 5°2 (222+0"2 let ul=22x2+1 deu = 212x dec det the cloc date doc - dey ZEX

1 = 2 x = 1 + 1 2 x = 2 + 1 7(2 = 14 - 1 Sx. Tre du zx So J2271-1 J22841 40 So J2271-1 J22841 40 So J2282 J22841. du 20 So J2282 J22841. du 20 So J2282 J22841. du 20 So J22841. du 20 So J22841. du

I Z X Gray De A × CA)3/12 2× 27 3/2 2× 18 = 36 at x = 0 = 0 upper bound - lower Lond = 56 - 0 - Jo x Cax 2+1) dx = 36.