BOARD DE STEDIES (0,1)2a) y= e<sup>2>c</sup>  $\gamma - \gamma_1 = m(\gamma c - \gamma c_1)$ dy = 2e2x -1 = 2(2c - 0)sub x=0 2e°  $\gamma - 1 = 2x$ Y=2,5c+1 m=2 b) i) x sin x  $\frac{dy}{dx} = \chi^2 \cos \chi$  $\frac{1}{10} \frac{\ln x}{dx} = \frac{du}{dx} + u \frac{du}{dx}$  $\chi^2$ J<sup>2</sup>  $\frac{\chi^2 \times bine}{\chi^{4^2}} + \frac{\ln \chi \times 2\chi}{\chi^{4}}$  $= \frac{1}{2c^2} + \frac{\ln 2c + 22c}{2c^4}$ 

