echnique d 2.1 Integration By Part Judu = un - (volu S Eux dx du=dx CI = Enx du = dx w= fdx Shxdx = xhx - fx dx = x ln x - Jdx x (lux-1) = x lux - x + C | x readx e coobxdx  $\int x^{1} \cosh x \, dx$ leax sunbxolx Sx1 micx dx derif f corlar EX X CJ=Xdx = XSinx + CJX+C) + X = Sinx  $\int x^{2} e^{x} dx = x^{2} e^{x} - 2x e^{x} + 2e^{x} + C \qquad \int e^{x} e^{x} dx = e^{x} (x^{2} - 2x + 2) + C \qquad \int e^{x} e^{x} dx = e^{x} (x^{2} - 2x + 2) + C \qquad \int e^{x} e^{x} dx = e^{x} e^{x}$ Jexdx +2 (ex