Tunoleon pacriet 1-3 Capuart Nº5 Pe-x sinx dx Muceu. X=0- acotais toring Tyerb $0 < B < \infty$, torque: $I(B) = \int e^{-x} \sin x \, dx = -\int \sin x \, d(e^{-x}) = 0$ = - (Sinxex | B - Je - cosx dx) = - Jcosx d(e-x)-- sinx e | = - (cosx e | + Je sin xdx)-sine | => Je sinxdx = - Je sindx - cosxe B - sinxe x B $2\int e^{-x} \sin x \, dx = -\left(\cos x \cdot e^{-x}\right)^{B} + \sin x \cdot e^{-x}$ Je-x sinx dx = -2 (cos x e-x | B + sin x e -x | B) = = -\frac{1}{2} (cosbe - cosoe + sinbe - B - sinoe) = = -\frac{1}{2} (e^B \cosb + \sinb \cdot B - \delta \)

lim 1(B)= lim -2 (cosbe-3+sinbe-3-1)= B-00 B-00 = - a lim eB (cosb+sinB) + a = 0+ a = a b=0 = 0 Orber: recover bernou unerpai noncreti -(***) 6 x290 - - (x6 x 20) * 5 - (3 x // 12) - -TO VINE + HTO YARD I - YARMINE 3 X 1412 F 3 X 200) 6 7 X L X L X L X + (30 vie - 30 vie -