26th October, 2019. NAME: EMMANUEL CHRIS DEPT: MECHATIRONICS ENGINEERING. MAT: NO: DE (99139705FE). $y=3e^{2n}$; $y_1=3e^{-n}$ b=2, a=1 $A = \int_{a}^{b} y \cdot dn - \int_{a}^{b} y \cdot dn$ down 2+20 smotede = ()-3e²ⁿ-3e⁻ⁿ-dn Swet to swe to to me 31.12 survey during 51.18

y= 2 smint; n=2+2t-2003 == t A= (b)

Het 7/10 = C; to make resolution easier. dre = 2+2csmict du = 2+2csinct-dt A = (2 smict (2+2csmict). dt. = 4 Sinct + c sin² ct odt = 4 (sinct + c (1-cos 2ct) odt Recall; c= 7/10. = [7t _40 cos 7t _ smat] = (atio) sm 7(10) - 40 cm 7 (10) $= \left(\frac{\pi(10)}{5} - \frac{\sin \pi(10)}{5} - \frac{40 \cos \pi(10)}{5} \right) - \left(\frac{\pi(1)}{5} - \frac{\sin \pi(10)}{5} - \frac{\cos \pi(10)}{5} \right)$ 27 + 40 = 31.75 synang mits.