BAKARE KEHINDE HAMMEEDAT TE 1700 BORNS SON IS SER AS 19/ENG03/032 CUTE ENGINEERING west se mot attended to a se ENG 234 V= CAt-3t2)mls determine the position at time t=45. s full su = SAt-3t2dt  $S = 2t^2 - t^3 + C$ At t=0, 8=0.  $1, 0 = 2(0)^{2} - (0)^{3} + ($  $8 = 2t^2 + 3$ At t= 4s  $S = 2(4)^2 - (4)^3$ 3 = -32m The regative sign shows the particle is moving to the left of its original position N=0.2f3-8f 2 a=dy = 1.5t2-8 At the t=2s  $a = 1.5(2)^2 - 8$  $a = -2m/s^2$ The negatives sign shows that the particle is decelerating. 3 a = (At2-2) m/s2  $V = Sa = S4t^{2} - 2dt$   $V = 4t^{3} - 2t + C_{1} = -0$ Scanned by CamScanner