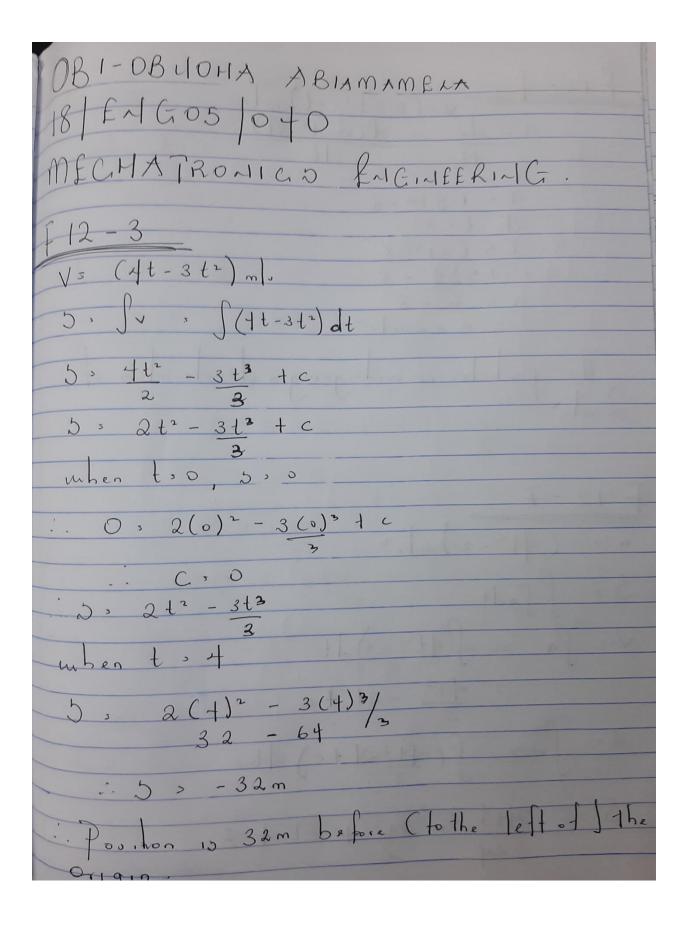
OBI-OBUOHA ABIAMAMELA 18/EN05/040 MECHATRONICS ENGINEERING.



 $a, dv \times d(0.5t^3-8t) ml.$ $a, dv \times d(0.5t^3-8t)$ dt9 3 1.5 t2 - 8 $9 \cdot 1.5 (2)^{2} - 8$ $0 \cdot (1.5) + - 8$ a > 6 - 8 The partile is undergoing a develor - 12 - 7 = (~ t2 - 2) m 1,2 5, (fadt Vs Pas (4t2-2) dt , 4t3 -2t +c ~ 5 (4t3-2t+c) at S = 2t2 + ct + 2

$$5 = \frac{t^{+}}{3} - t^{2} + ct + t$$

when $t > 0$, $1 = 2$

when $t > 0$, $1 = 2$

when $t > 2$, $5 = 20$

$$\frac{(2)^{+}}{3} - (2)^{-} + 2c + -2 = -20$$

$$\frac{16}{3} - \frac{1}{4} + 2c + 2 = -20$$

$$2c = -20 + 2 + 4 - 16$$

$$2c = -14 - 16$$

$$2c = -29 = 3$$

$$2c =$$

s (20-0.0552)mls : a = (20-0.05 s2) x (-0.15 hen - 5 = 15m a 5 (20-0.05 (15)2) x (-0.1 (15)) (20 - (0.05)(225)) x (-1.5) 5 - 13.125 m/ ,2