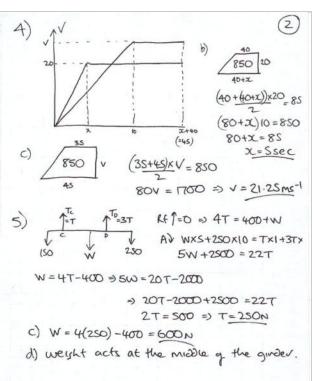
:MI JANOZ (1) Mom before = $0.3 \times 8 = 2.4 \text{ Ns}$ Mom after = $0.3 \times -6 = -1.8 \text{ Ns}$ () 8 (03) 6 (=-6) (0.3) Impulse = 4.2NS 2) 1200 3000 Total mom byfore = 1800×4 = 7200 Ns 30000 Total mom after = 7200 = 3000 => V = 2:4ms-1 b) Momentum before R = 7200 Ns => Impulse = 7200 Momentum after R= O Impulse = force x time 7200 = Res x 8 Rcs = 900N3) U=12 V=60 t=4 V=4+at => 60=12+4a => 4a=48 => a=12ms2 b) $S = (u+v)t = S = \frac{72x4}{2} = 144m$

V2=U2+2as => V2=144+24×72 => V= 43.3ms

c) u=12 S=72 a=12



NR+ (4)2-SSina 2.5×3 NR=0.3g-> 2 SCosa NR = 1.44 0.35 fmax= MNR= 0.65N ·S65x = 2.5x 4 = 2N So the ring will mare since Rf = 1.35N (P) T-fmax=3ma (Smg-T = Sma M=0.6 Smg-fmax=8ma. 50% -1.8mg = 8 Ma NR=3mg 3.2g= 8a max= MNR= 1.8 mg a= 3.29 = 29 m T= 3ma + fmax T = 3mx = g + 1-8mg = 3mg N $v^2 = u^2 + 2as$ 11=0 V2= 49h 12=39 V = V 4 gh ms-1 =h = 1332 V=O = U2+2as =) O= 49