



$$\Sigma F_{\chi=0} - N_2 C_3 53^\circ = F_{-0} N_2 \times 0.6 = 30 - 0 N_2 = 50 N$$

 $\Sigma F_{\chi=0} - N_1 = N_2 \sin 53^\circ + mg - 0 N_1 = 50 \times 0.8 + 30 \times 9.8 = 334_N$

mag = 44 ~ , Mg=0.3 meg = 22 N (1) sil = EF= 0 - 0 mBg = MS (mAg+mcg) mg = 22 - 0.3 x 44 = 29.3: ·) mg - fx = (m4+mg) a · mBg-/1x-mAg=(mA+mB)a 22-0.2 (44) = 1.96 m/s2 oa = MBg-MKMA9 22+44 IF=ma F-fx=ma 20 - Mr. mg = ma 20 - 0.3(4x9.8) = 9a Vo= 0 m/5 -0a= 20-03(9.8×4) = 2.06 m/2 Cont=3 V=a++Vo _0 V = 3 x 2.06 = 6.18 m/s V=6.18m/s = + at2+v2+2. = + (2.06)(3)2=9.27m of of gridest acili Folon (تعلی دی) ۷ -9m

$$x_{stop} = \frac{v_0^2}{2\mu kg} = \frac{36}{2 \times 0.3 \times 9.8} = 6.12m$$

$$\sqrt{2} = 9.27 + 6.12 = 15.39 \text{ m}$$