

a FN. pivot Fg2 Fg, 0.60 m 1.60 m d\_= 0.50m a)  $f_{g_1} = m_{g_2} = (4.0)(9.8) = 39.2 N$ Fz= m2g = (6.0)(9.8) = 58.8 N 7, = 7 cc V Fg. d. = Fg2dz /  $d_{2} = \frac{F_{g_{1}}d_{1}}{F_{g_{2}}} = \frac{(39.2)(0.50)}{(51.8)} = \frac{[0.33 \text{ m}]}{(51.8)}$ b) Since the board is about to tip FNIEFF = OV 2 Fy = FNright - Fg. - Fg. = 0 FNright = Fg1 + Fg2 = 98N