 Quiz	3c	14/11/2011	
 How much force must the tricep muscle in the upper arm exert on the lower arm to hold a 8.2 kg shot put?	,	2.5 cm 30.0 cm	
Assume the lower arm has a mass of 2.6 kg and its center of mass is 13 cm from the elbow joint.		VF _M Elbow joint	
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d1=13cm **0**₃ = 2.5 cm **0**₂ = 30.0 cm Elbow joint $F_{2, =} m_{1, g}$ $F_{2, =} m_{2, g}$ = (2.6)(9.8) = (8.2)(9.8) - 9.6 - 21 - 6= 25.98N = 80.36 N Te = Tee V Fg. d. + Fg2d2 = Fmd3 $F_{M} = \overline{f_{g}, d_{1} + f_{g2}d_{2}} = (25.48 N)(0.13 m) + (80.36 N)(0.300 m)$ d₃ 0.025m1100 N =