14) JFF HE ma (os(d) m= 1.8.10 7 Kg = 9=9.8 m/s 2 9=240 N5=0.63 Fg = mg sin(A) Fg=(1.8x107) (9.8) sin(240) = 7.1 × 10 6 N ridion IF = MN ITNO et.8-1077.0.63-cos(24).9.8 = 9.72× 10°N Since FF7Fg, the block won't slide.

b) F = 9.7.10 M is required -7 FT, = 5-1 Fg = my B<sub>moss</sub>= 7111 N= 0.25 \(\theta = 30^{\theta}\) Bmoss = FN Amass = Tusin & t2 cos θ - Γ,=0 + τι = Γ, tzcoso:T A= Tz sing A = T, tone A= NFN tong A=NB tonB A = .25 (711N) tan (30°) = 102.62N