PHYS 211 Sample Test Question on Equilibrium

1. State the conditions for static equilibrium, in terms of net force and net torque.

2. In the figure below, a climber leans out against a vertical ice wall that has negligible friction. Distance *a* is 0.914 m and distance *L* is 2.10 m. His center of mass is distance *d* = 0.940 m from the feet–ground contact point. If he is on the verge of sliding, what is the coefficient of static friction between feet and ground?

