46. A student has to escape from his girlfriend's dormitory through a window that is 15.0 m above the ground. He has a heavy 20-m-long rope, but it will break when the tension exceeds 360 N and he weighs 600 N. The student will be injured if he hits the ground with a speed greater than 10 m/s. (a) Show that he cannot safely slide down the rope. (b) Find a strategy using the rope that will permit the student to reach the ground safely. (omit)



