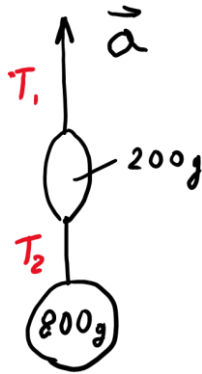


Homework 4

Problem 1.

The weightless and non-stretchable cords holding two masses will break if the tension exceeds 15 N. What is the maximum upward acceleration a one can give the masses without the cord breaking? Repeat if the maximum tension is only 7 N.



Problem 2

How large must be force F to give the $700g$ block an acceleration of 30 cm/s^2 ? The coefficient of friction between the two blocks and also between block and table is 0.15 . The cord is weightless and non-stretchable.

