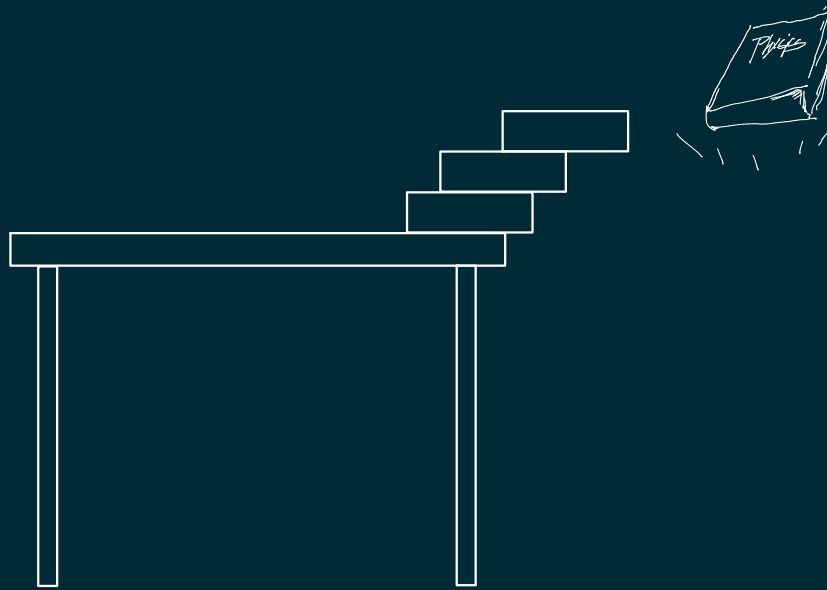


Phys 124 @ Rutgers
tutorial #2
equilibrium & elasticity

Problem set #1

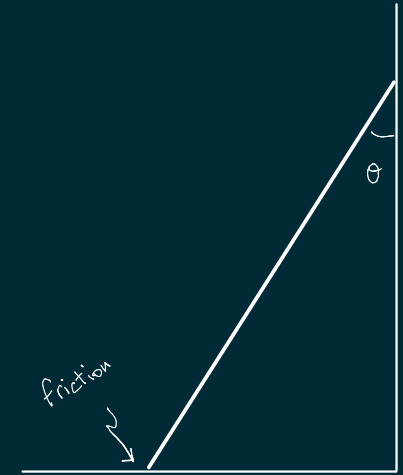
Problem #1

There are bunch of physics books sitting on the table. Can you make a book balanced in a way that no part of the book is above the table? How far can you get if you have N books? Remember that you can only use the books on the table.



Problem #2

A uniform ladder with mass m and length l is leaning against a vertical wall. There is no friction between the ladder and this wall but there is friction between the ladder and ground. Find the minimum of static friction coeff. so that the ladder does no slide. The angle between the ladder and the wall is θ .



Problem #3

Find the minimum horizontal force F to take up a wheel with mass m and radius R from a bump with height h . The force is acting on the center of the wheel.

