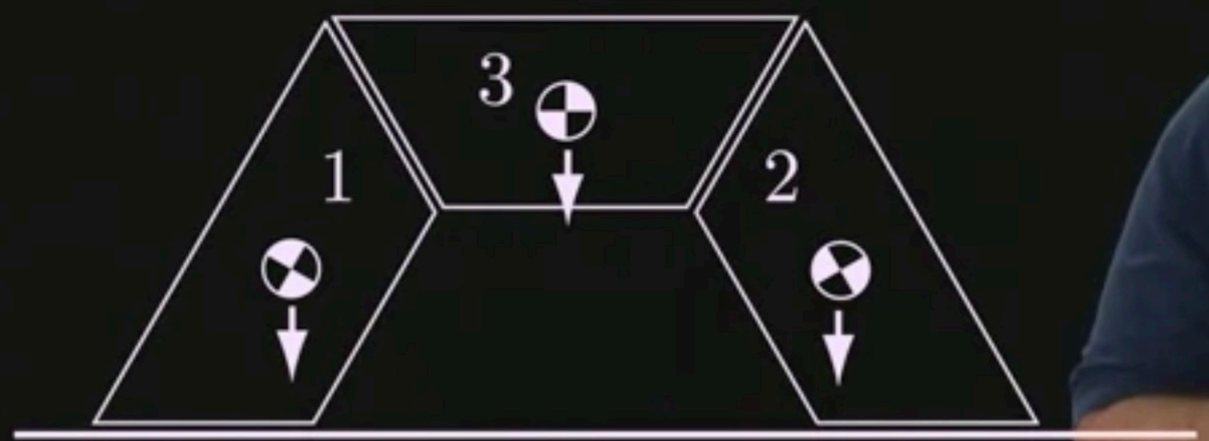
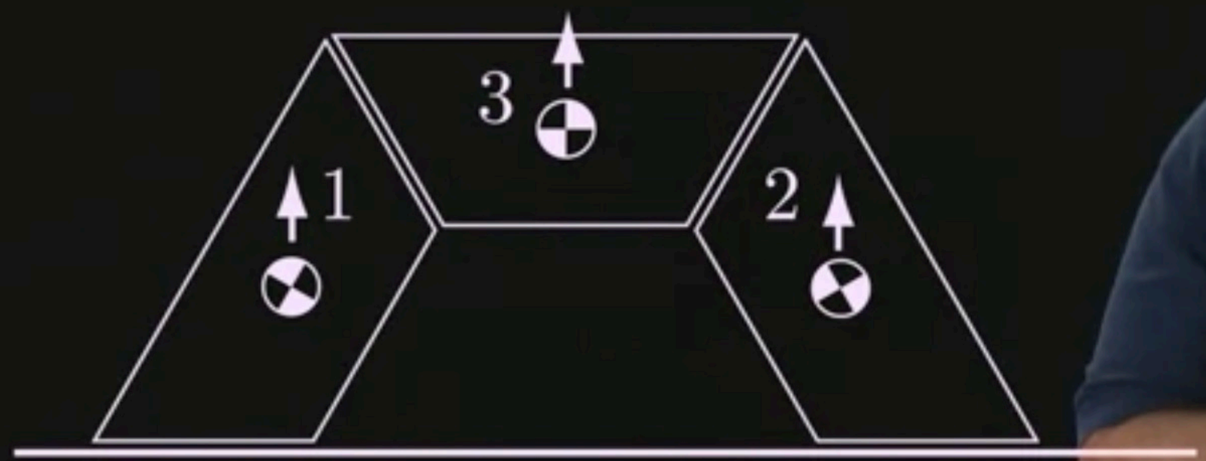


$$\boxed{\mathcal{F}_{\text{ext}}} + \sum k_i \mathcal{F}_i = 0, \quad k_i \geq 0$$

balance equation, where F_ext is the external
force acting on the block, in this case gravity,

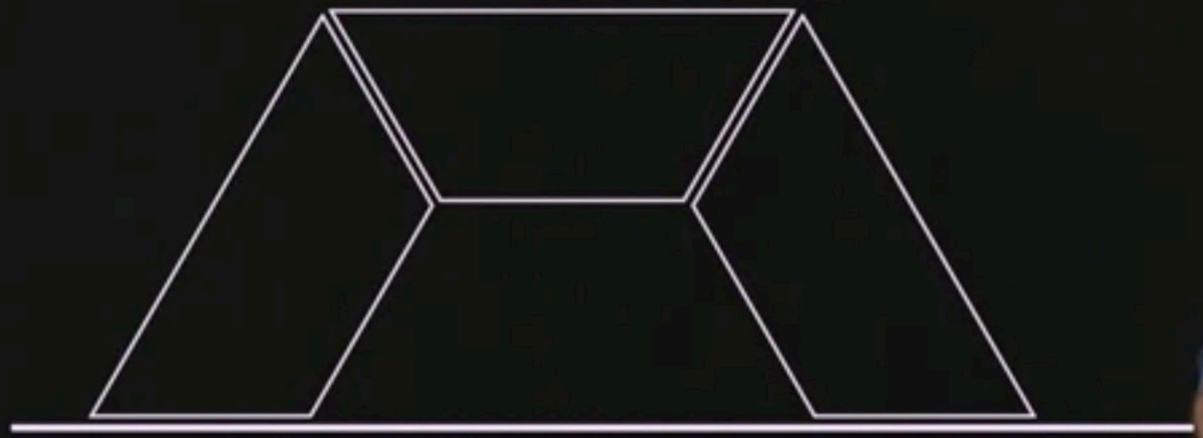


$$\mathcal{F}_{\text{ext}} + \boxed{\sum k_i \mathcal{F}_i} = 0, \quad k_i \geq 0$$

contact forces

and the contact wrenches on each block must balance the gravitational force.

0:30 / 3:04



$$\mathcal{F}_{\text{ext}} + \sum k_i \mathcal{F}_i = \mathcal{G}\dot{\mathcal{V}} - [\text{ad}_{\mathcal{V}}]^{\text{T}} \mathcal{G}\mathcal{V}$$