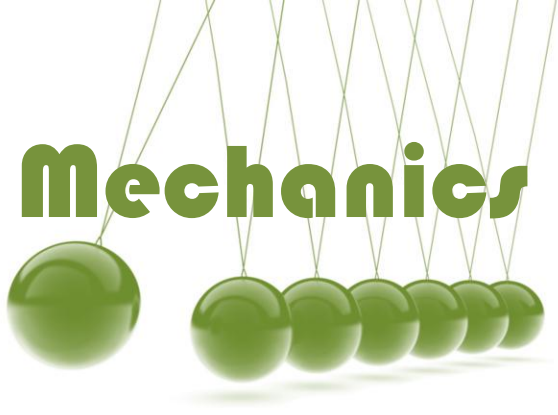


Mechanics



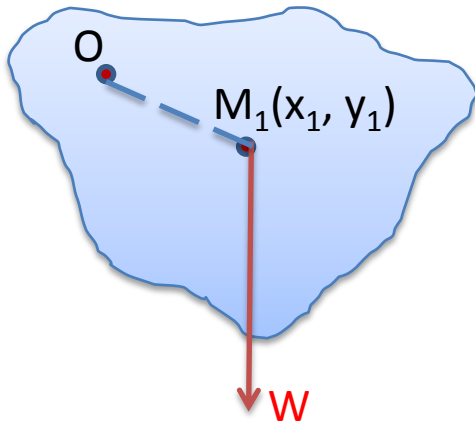
M1

Suspension of Laminae

Objective: To be able to determine the angle at which a lamina will suspend to the vertical.

A rigid body freely suspended from point O will rest in (stable) equilibrium with G vertically below O.

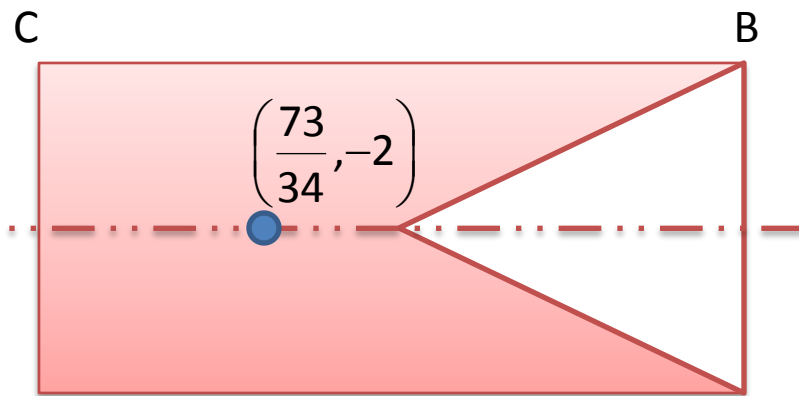
Proof!



Mom about O requires moment of W to be zero. QED

Example

Using an example from last lesson, the centre of gravity is already calculated.



Find the angle CB makes with the vertical when the system is allowed to rest freely pivoted at C.

