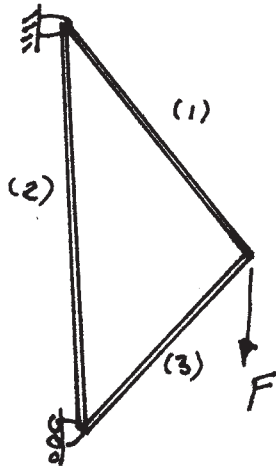
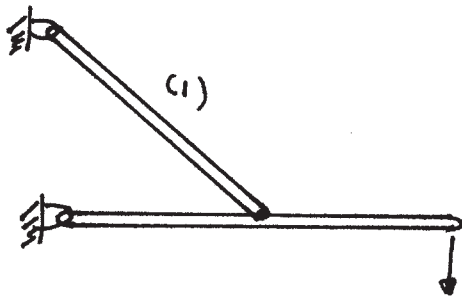


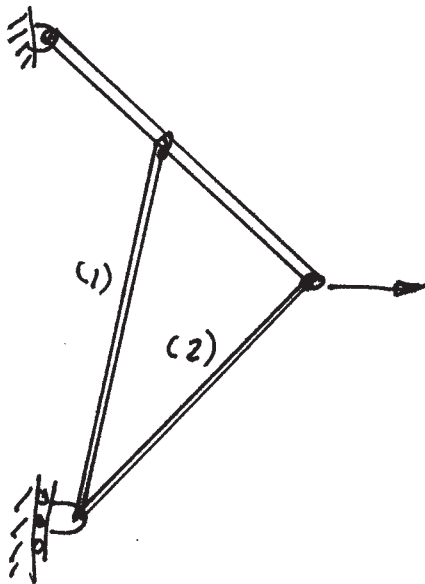
Be able to find forces
in bars 1, 2, 3 & the reactions
at the supports.



Be able to find the force
in bar 1, & the reactions
at the supports.



Be able to find the forces
in bars 1, 2 & the
reactions at the supports.

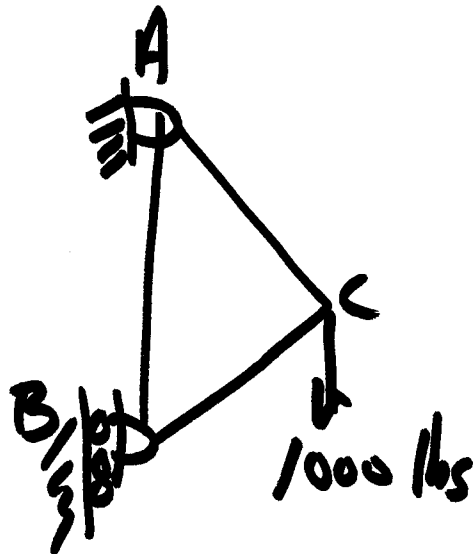


What is a Free Body Diagram?

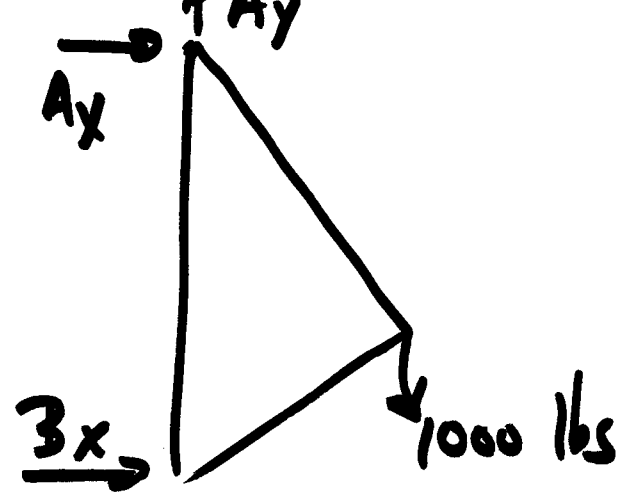
A FBD of a structure is a sketch of the structure showing the basic loads on the structure and the various support reactions.

Supports should not be drawn on the FBD,
as this can lead to confusion between loads and support reactions.

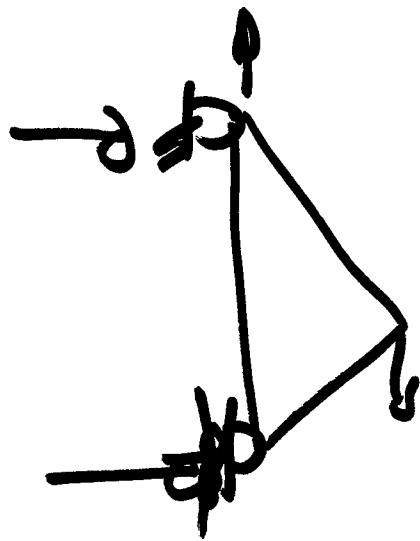
Consider this structure:



Here is a proper FBD:



Here is an improper FBD:



} no credit
for this
FBD