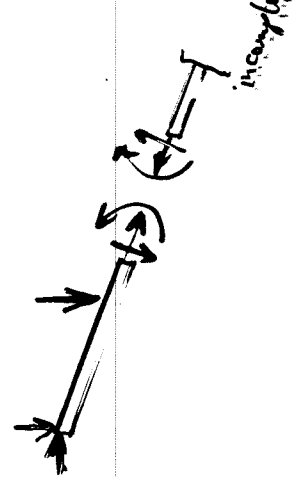
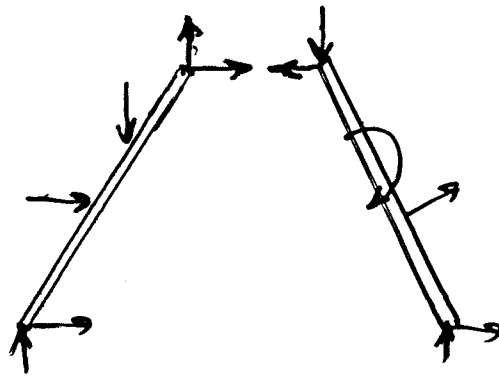
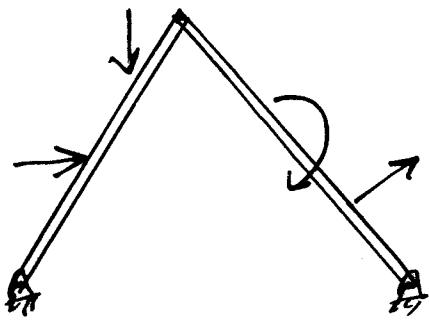


# Internal Forces

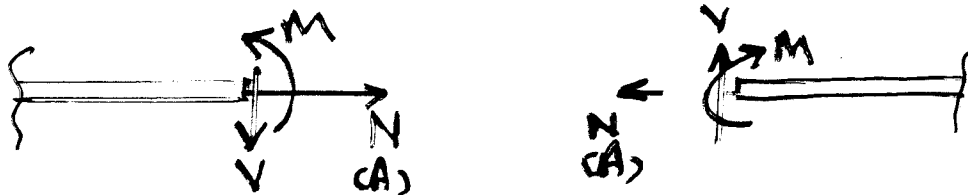


→ External Forces

→ Internal Forces which hold various members together

→ Internal Force which hold various parts (particles) of a member together

2-D



$N = \text{Normal force}$  ( $A = \text{Axial force}$ )  
 $V = \text{Shear force}$   
 $M = \text{bending moment}$

All shown internal forces are positive!

3-D

