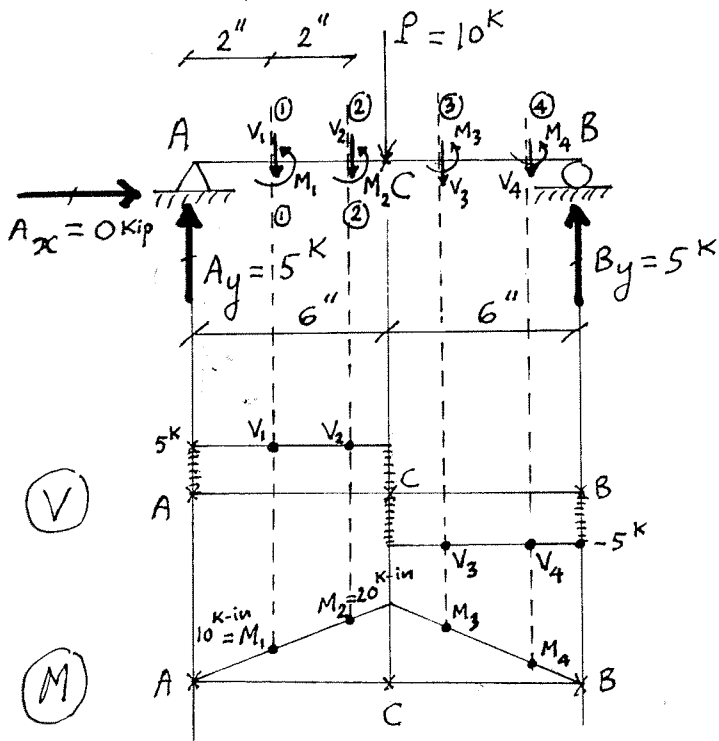


# Basic Examples About Shear & Moment Diagrams

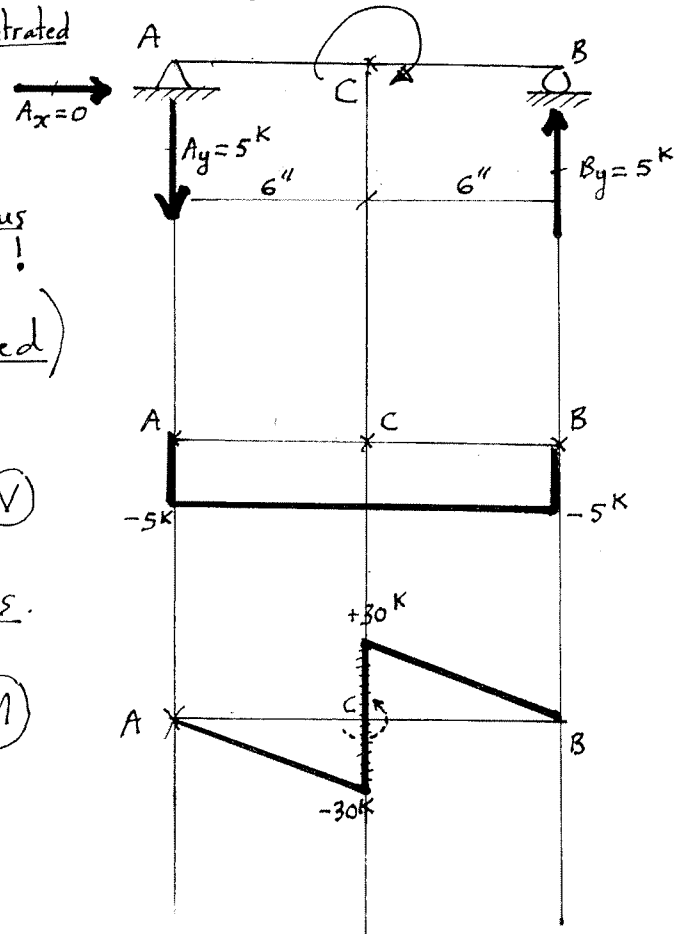
## Example 1 (Concentrated force applied)



Notes:

- Make several cut sections
- At each cut-section, identify internal shear force  $V_i$  & internal moment  $M_i$
- Apply 3 equil. eqs. on the "LEFT" FBD to solve for  $V_i$  &  $M_i$
- Connect all the dots to create the  $(V)$  &  $(M)$  diagrams,  $M = 60\text{ k-in}$

\* At concentrated force locations. There were discontinuous  $(V)$  values!



## Example 2 (Concentrated Moment Applied)

\* At concentrated moment locations, there were discontinuous  $(M)$  values.

$(M)$