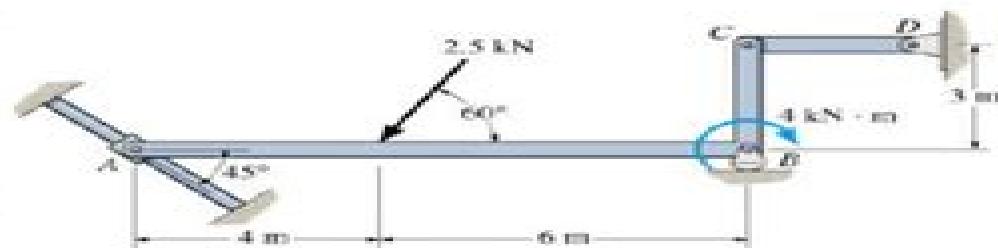


Problem 1a.1

Member ABC is a rigid bar and CD is a short link. Bar ABC is supported by a rocker at B and is pinned to a slider block at A that is free to slide along the diagonal shaft. Bar CD is pinned to the wall bracket at D and pinned to bar ABC at C. A couple moment acts on bar ABC near the pin at B. In this case you may neglect the self weight of the bars.

- Draw a complete Free Body Diagram (FBD) for the two connected bars (ABC and CD) combined and then for each individual bar.
- State the number of unknowns associated with each FBD. Unknowns can be forces, couple moments, distances, angles, etc.
- State whether each FBD is **STATICALLY DETERMINATE** or **NOT STATICALLY DETERMINATE**. Also state whether it is **STABLE** or **UNSTABLE**.



a)

$$F = 2.5 \text{ kN}$$

$$M = 4 \text{ kN}\cdot\text{m}$$

$$m = -e_1 \cos(60^\circ)$$



C



D



C

C



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JL Elias

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