CEE 210 Statics
Arizona State University

Subject: **Recitation 1a**
Modeling & FBDs

Name:
Date:

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.

a) Draw a complete Free Body Diagram (FBD) for the two connected bars (ABC and CD) combined and then for each individual bar.

b) State the number of unknowns associated with each FBD. Unknowns can be forces, couple moments, distances, angles, etc.

c) State whether each FBD is **STATICALLY DETERMINATE** or **NOT STATICALLY DETERMINATE**. Also state whether it is **STABLE** or **UNSTABLE**.


a)
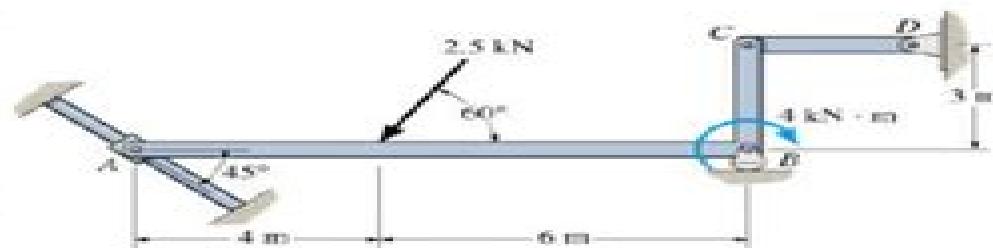
$F = 2.5$ kN

$M = 4$ kN*m

$m = -e_2 \cos(60)$
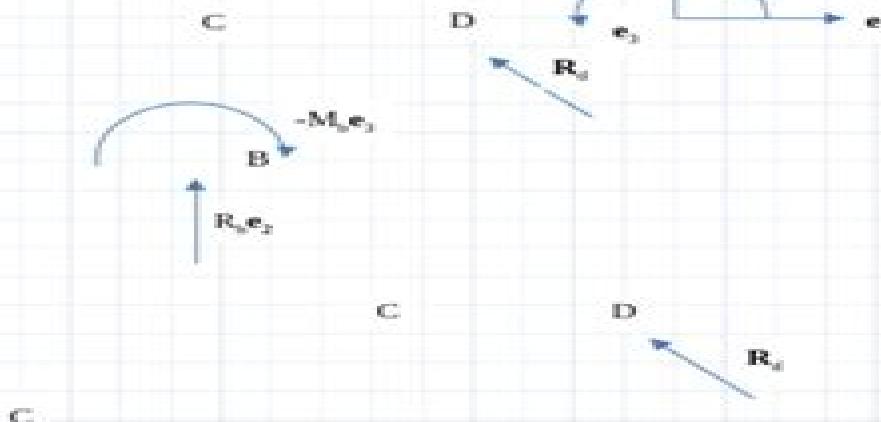
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