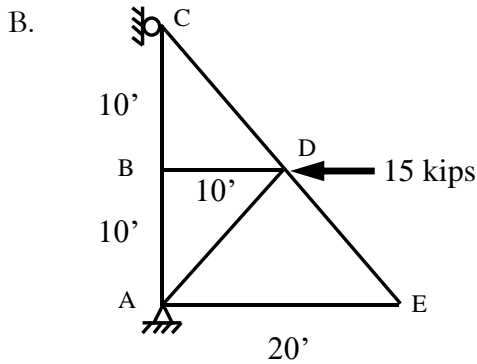
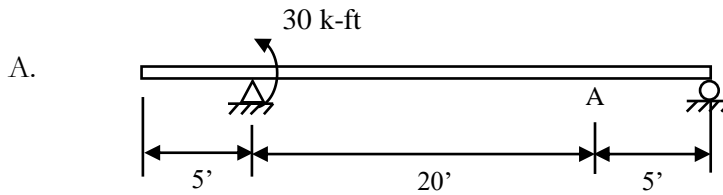
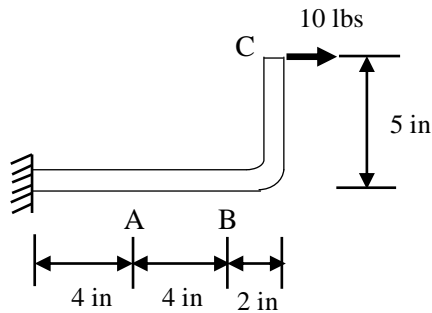


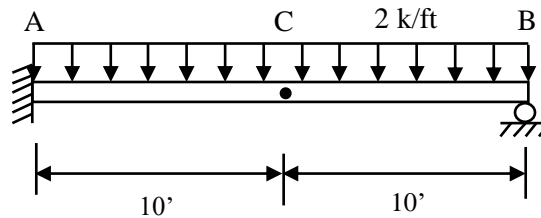
1. Draw free body diagrams for the figures shown below.



C. On the pipe assembly below, the following forces are also present at location A) 15 lb force into the page, B) 20 lb force into the page, and C) 30 lb force out of the page.



D. There is a hinge at location C on the figure below.



2. Find all reactions for figures B and D above.
3. Determine all internal forces at location A for figures A and C above.