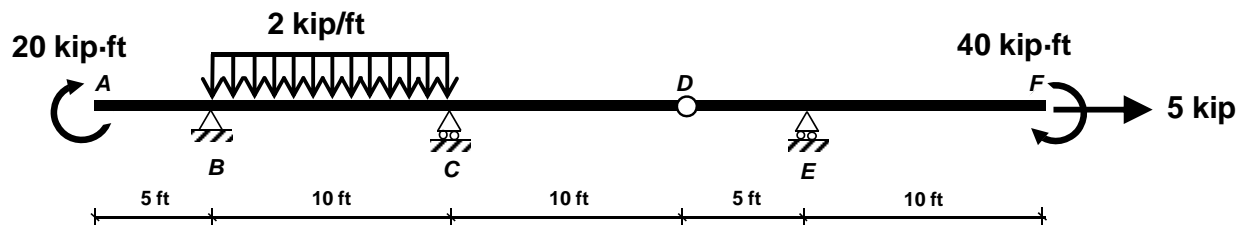
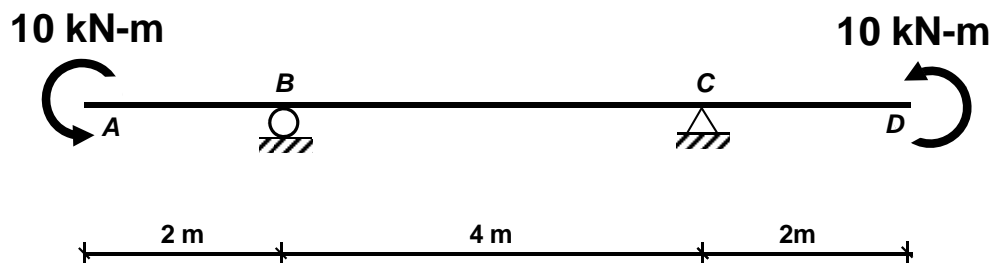


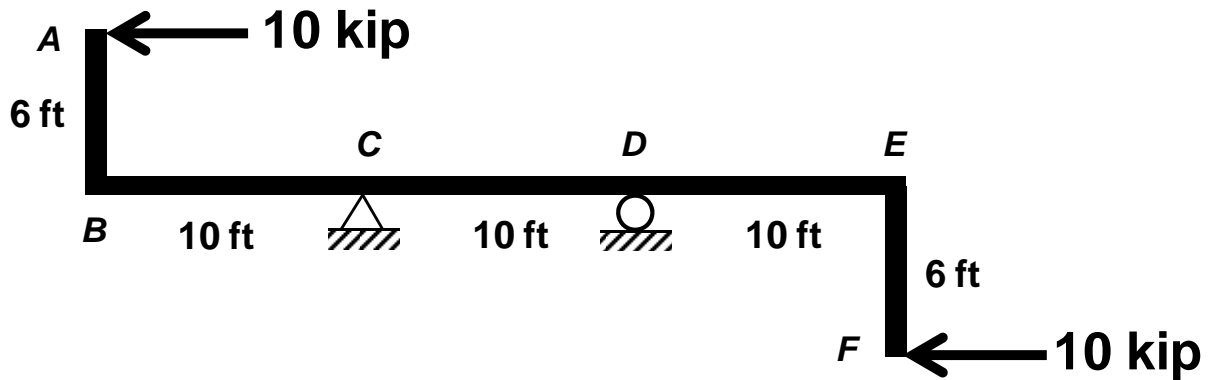
- 1) Beam *ABCDEF* has a pin-support at *B* and roller-supports at *C* and *E*. At *D*, there is an internal hinge.
- Find the support reactions.
 - Draw the axial force diagram.
 - Draw the shear force diagram.
 - Draw the bending moment diagram.
 - Sketch the deflected shape. Consider flexural response only.



- 2) Beam *ABCD* has a roller-support at *B* and pin-support at *C*.
- Find the support reactions.
 - Draw the shear force diagram.
 - Draw the bending moment diagram.
 - Sketch the deflected shape. Consider flexural response only.



- 3) $ABCDEF$ is a continuous frame structure supported by a pin-support at C and a roller-support at D . Joints at B and E are rigid. 10 kip horizontal loads are acting leftward on the structure at its free ends at A and F , as shown below.
- Find the support reactions.
 - Sketch the deflected shape. Consider flexural response only.



- 4) ABC is a continuous frame structure with a pin-support at A and a roller-support at C . A horizontal load P is applied at B as shown below. The joint at B is rigid.
- Find the support reactions.
 - Draw the axial force diagram.
 - Draw the shear force diagram.
 - Draw the bending moment diagram.
 - Sketch the deflected shape. Consider flexural response only.

