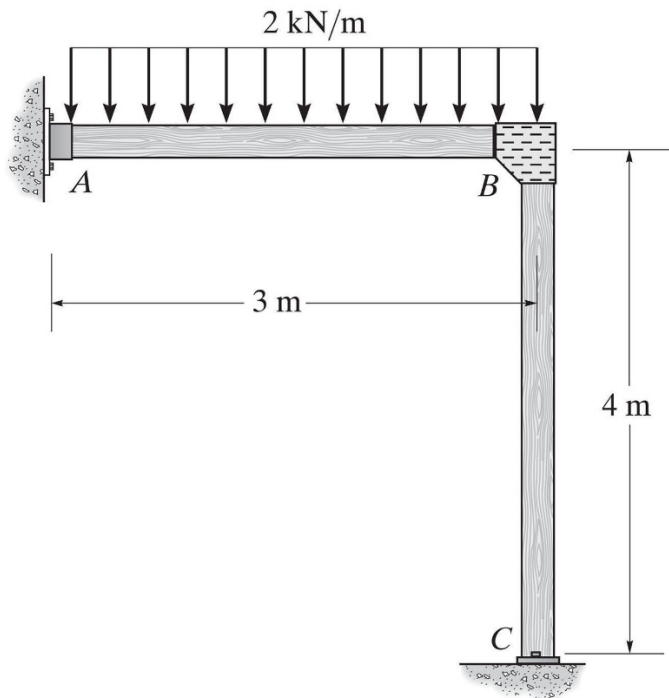**Problem 11b-1** – Determine the moment at *B*, then draw the moment diagram for each member of the frame. Assume the support at *A* is fixed and *C* is pinned. *EI* is constant.

2 kN/m

A

B

C

3 m

4 m
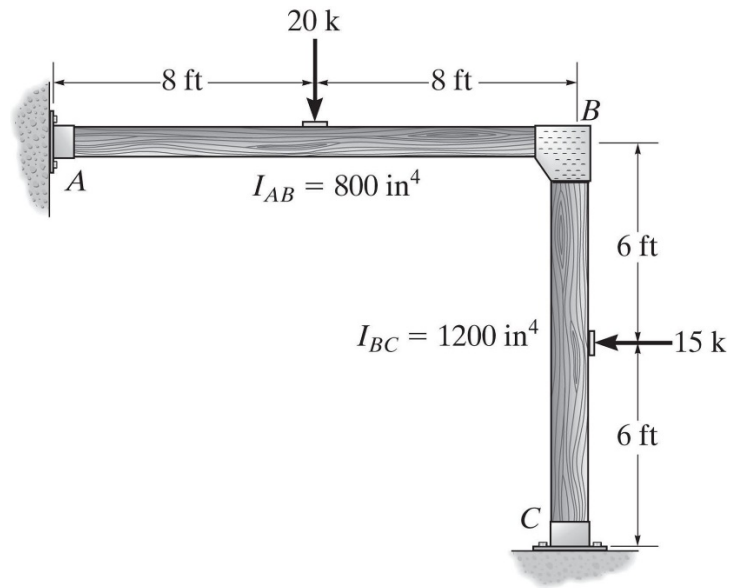
Problem 11b-1 – Determine the moment at *B*, then draw the moment diagram for each member of the frame. Assume the support at *A* is fixed and *C* is pinned. *EI* is constant.

Joint	A	B		C
Member	AB	BA	BC	CB
DF				
FEM				
Dist.				
CO				
Dist.				

Problem 11b-1 – Determine the moment at *B*, then draw the moment diagram for each member of the frame. Assume the support at *A* is fixed and *C* is pinned. *EI* is constant.
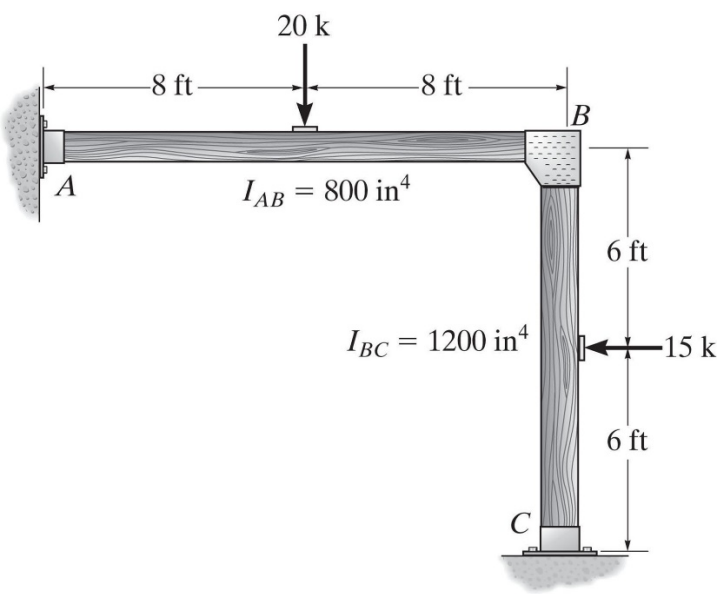
Problem 11b-1 – Determine the moment at *B*, then draw the moment diagram for each member of the frame. Assume the support at *A* is fixed and *C* is pinned. *EI* is constant.

11b-2 – Determine the moments at the supports, then draw the moment diagram. The members are fixed connected at the supports and at joint *B*. The moment of inertia of each member is given in the figure. Take $E = 29(10^3)$ ksi.

20 k

-8 ft-

-8 ft-

B

A

$I_{AB} = 800$ in^4

6 ft

$I_{BC} = 1200$ in^4

-15 k

6 ft

C

Problem 11b-2 – Determine the moments at the supports, then draw the moment diagram. The members are fixed connected at the supports and at joint B. The moment of inertia of each member is given in the figure. Take E = $29(10^3)$ ksi.

20 k

-8 ft- -8 ft-

B

A $I_{AB} = 800$ in^4

6 ft

$I_{BC} = 1200$ in^4 ←15 k

6 ft

C

Joint	A	B		C
Member	AB	BA	BC	CB
DF				
FEM				
Dist.				
CO				
Dist.				

Problem 11b-2 – Determine the moments at the supports, then draw the moment diagram. The members are fixed connected at the supports and at joint *B*. The moment of inertia of each member is given in the figure. Take *E* = 29(10³) ksi.
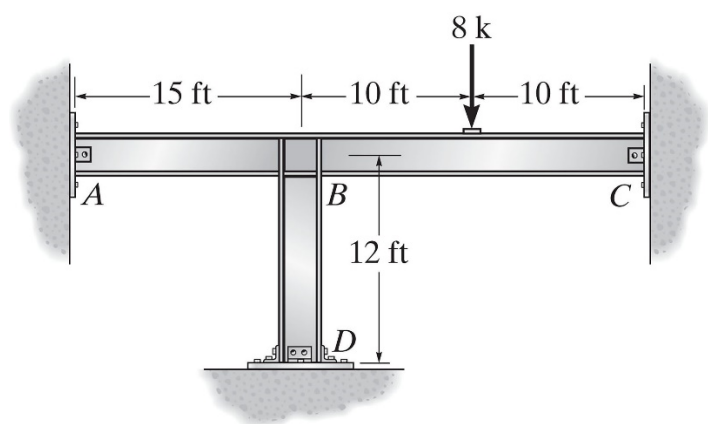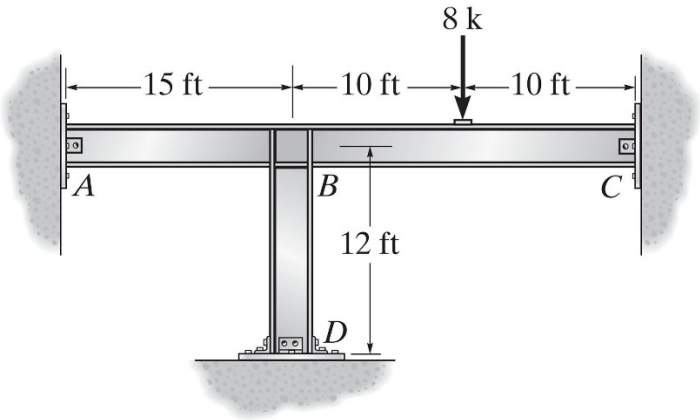
Problem 11b-2 – Determine the moments at the supports, then draw the moment diagram. The members are fixed connected at the supports and at joint *B*. The moment of inertia of each member is given in the figure. Take *E* = 29(10³) ksi.

Problem 11b-3 – Determine the moments at *B* and *D*. Assume *A* and *C* are pinned, and *B* and *D* are fixed connected. *EI* is constant.

Problem 11b-3 – Determine the moments at *B* and *D*. Assume *A* and *C* are pinned, and *B* and *D* are fixed connected. *EI* is constant.

Joint	A	B			D	C
Member	AB	BA	BC	BD	DB	CB
DF						
FEM						
Dist.						
CO						
Dist.						