7-6. Determine the internal normal force and shear force, and the bending moment in the beam at points C and D. Assume the support at B is a roller. Point C is located just to the right of the 8-kip load.

Support Reactions : FBD (a).

Internal Forces: Applying the equations of equilibrium to segment AC (FBD (8)), we have

Applying the equations of equilibrium to segment $SO\left(FBD\left(c\right)\right)$, we have

$$-12V_5 = 0$$
; $V_6 = 1.00 = 0$ $V_5 = -1.00 \log 0$ And $(-2)V_6 = 0$; $1.00(2) + 40 - M_6 = 0$ $M_6 = 45.0 \log 0$ And

7-7. Determine the shear force and moment at points C and D.

Support Rescales a FED (a).

(+ EAC, = 0;
$$300(8) - 300(8) - A_{s}(14) = 0$$

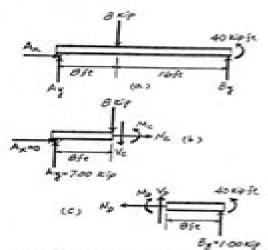
 $A_{s} = 114.29 \text{ is}$

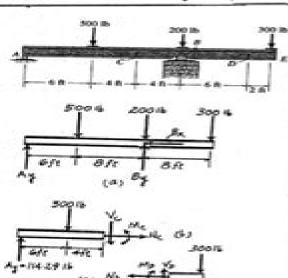
Internal Ferres : Applying the equations of equilibrium to regress $A\,C$ [FBC (h)], we have

$$K_c = 0$$
, $K_c = 0$ And $K_c = 0$ And $K_c = 0$, $K_c = 0$, $K_c = -386$ B. And $K_c = 0$; $K_c = 0$; $K_c = 500(4) - 114.29(10) = 0$
 $K_c = -657$ B: A

Applying the equations of equilibrium to segment ED [FBD (4)] , we have







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