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1–6. Determine the normal force, shear force, and moment at a section through point C. Take P = 8 kN.

#### Support Reactions:

$$\zeta + \Sigma M_A = 0$$
;  $8(2.25) - T(0.6) = 0$   $T = 30.0 \text{ kN}$ 

$$\Rightarrow \Sigma F_x = 0;$$
  $30.0 - A_x = 0$   $A_x = 30.0 \text{ kN}$   
  $+ \uparrow \Sigma F_y = 0;$   $A_y - 8 = 0$   $A_y = 8.00 \text{ kN}$ 

Equations of Equilibrium: For point C

$$\xrightarrow{+} \Sigma F_{c} = 0;$$
  $-N_{C} - 30.0 = 0$ 

$$N_C = -30.0 \text{ kN}$$

$$+\uparrow \Sigma F_s = 0;$$
  $V_C + 8.00 = 0$ 

$$V_C = -8.00 \, \mathrm{kN}$$

$$\zeta + \Sigma M_C = 0;$$
 8.00(0.75) -  $M_C = 0$ 

$$M_C = 6.00 \text{ k/N} \cdot \text{m}$$





Acres

Autom.



Negative signs indicate that  $N_C$  and  $V_C$  act in the opposite direction to that shown on FBD.

1-7. The cable will fail when subjected to a tension of 2 kN. Determine the largest vertical load P the frame will support



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