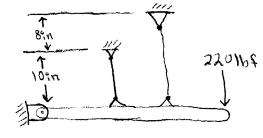
9.34



$$R_{Ax} \xrightarrow{A} \xrightarrow{B} \xrightarrow{C} \xrightarrow{D} \downarrow$$

$$T \leftarrow 12 \text{in} \rightarrow 1 \leftarrow 12 \text{in} \rightarrow 1$$

$$+ \sum_{x} F_{x} = R_{A} = 0$$

$$\frac{\delta_B}{12} = \frac{\delta_c}{24} \rightarrow \delta_B = 0.5\delta_c (2)$$

$$\frac{8B}{12} = \frac{80}{36}$$
  $8B = 0.33 So (3)$ 

Substitution For Eqn. (2)

$$\frac{F_{EB} L_{EB}}{A_{EB} E} = \frac{1}{2} \frac{F_{EC} L_{FC}}{A_{FC} E}$$

$$F_{EB} = \frac{1}{2} \frac{L_{FC} A_{EB}}{L_{EB} A_{FC}} F_{FC} = \frac{1}{2} \frac{(18) \left[\frac{\pi}{4} \left(\frac{1}{16}\right)^{2}\right]}{(10) \left[\frac{\pi}{4} \left(\frac{1}{16}\right)^{2}\right]} F_{FC} = 0.9 F_{FC}$$

Substitute into Egn (1)

Using Egn (1)

That should be 330 lbf. Every appearance of the number 220 should be changed to 330 in the whole solution.

$$\delta_B = 0.33\delta_D \rightarrow \delta_D = 3\delta_B$$
  
 $\delta_D = 3(0.12) = 0.35in$ 

Multiply this and the other 2 circled answers by 3/2. Including the displacement.