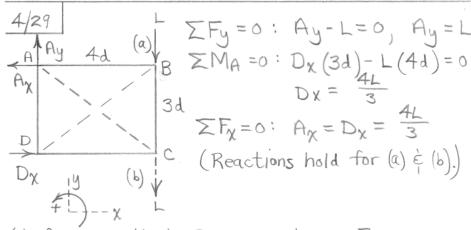
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(a) Assume that BD goes slack. From an inspection of joint B, AB=0 and BC=LC. Similarly, from joint D, AD=0 and CD=\frac{4L}{3}C.

(b) Assume that BD goes slack. From joint B, AB = BC = 0. From joint D, $AD = 0 \neq CD = \frac{4L}{3}C$.

AC Joint C: $\left\{\sum F_{y} = 0: AC\left(\frac{3}{5}\right) - L = 0, AC = \frac{5L}{3}T\right\}$ $\left\{\sum F_{x} = 0: \frac{4L}{3} - \frac{5L}{3}\left(\frac{4}{5}\right) = 0\right\}$