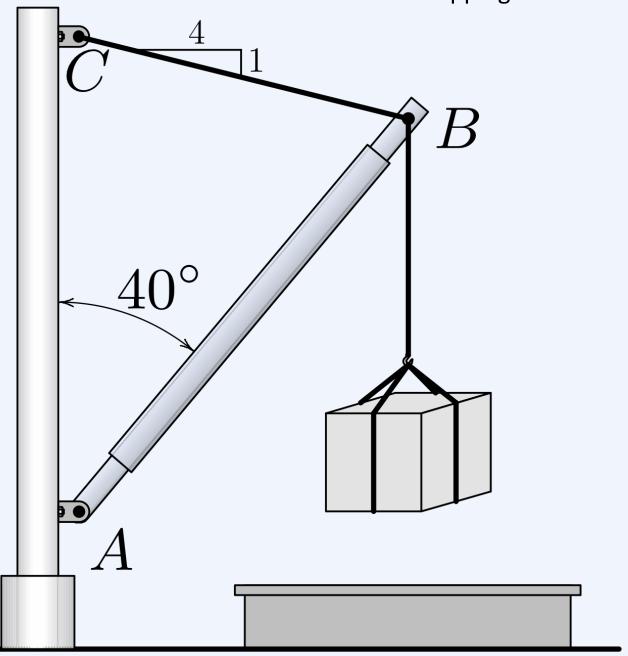
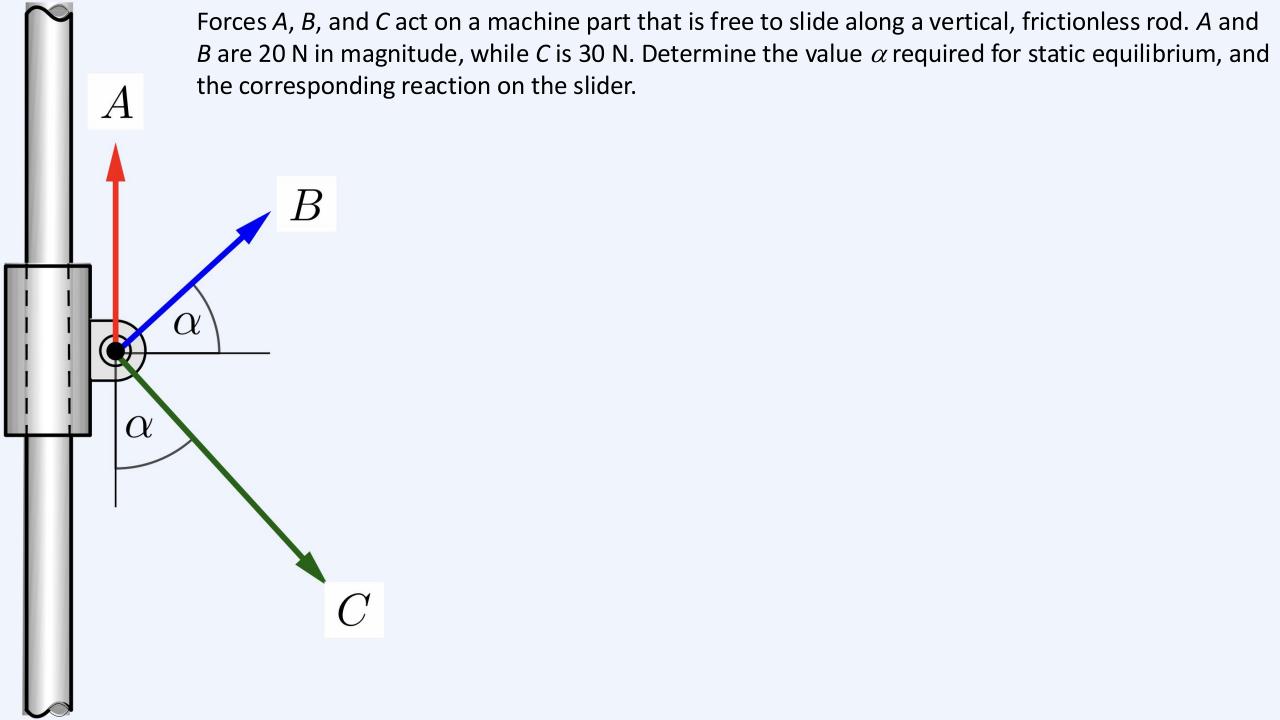
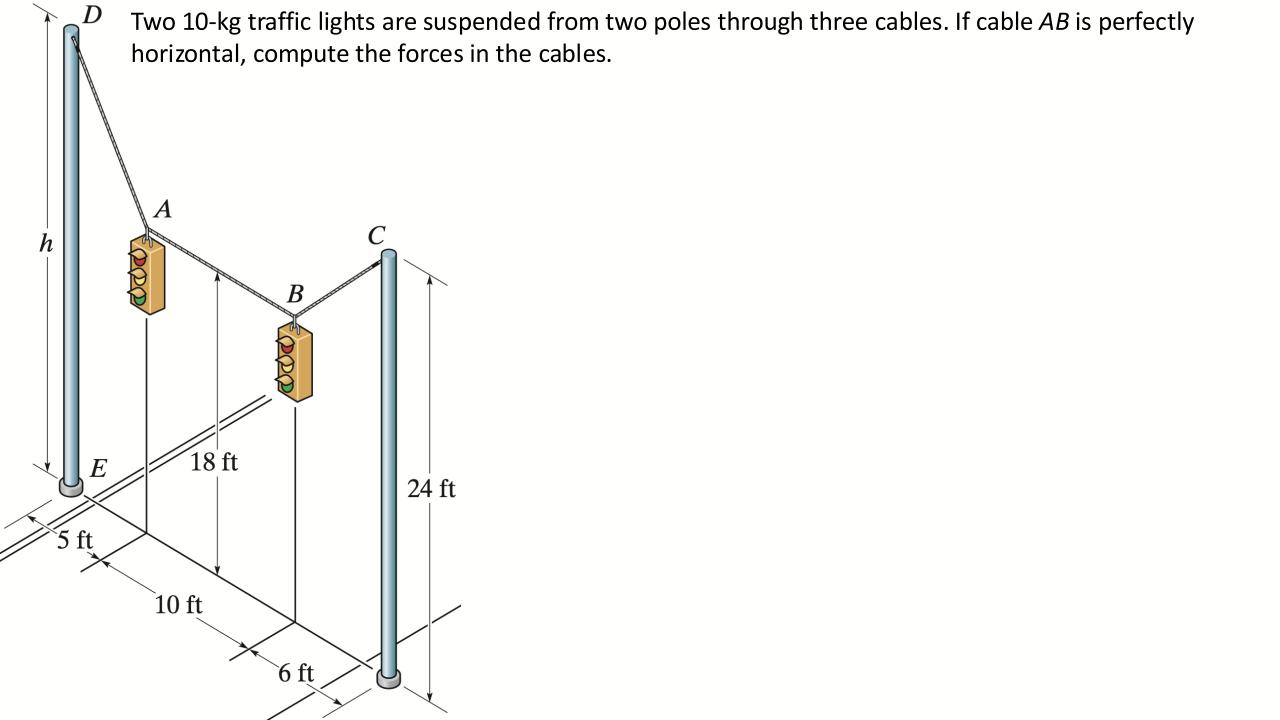
The 0.1-Mg crate is suspended through a 20-m long boom *AB* held by a topping lift *BC*. Determine the forces in the boom and in the topping lift.



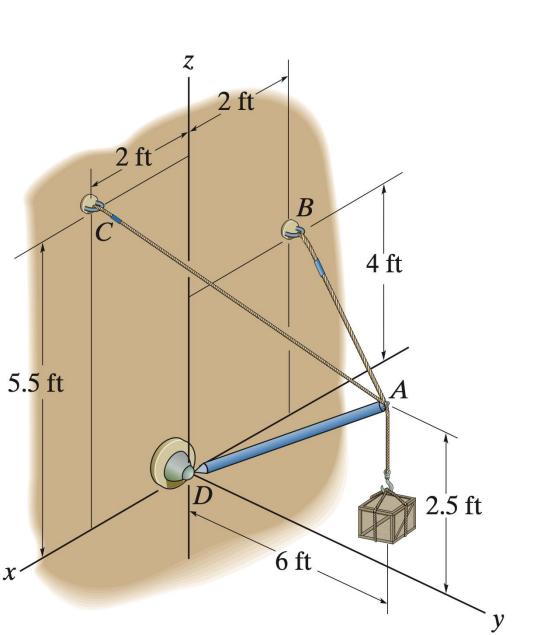


The power cables are symmetric about the cross arm. Each cable pulls with a 7-kN force. Estimate the tension in the guy wire.





Determine the forces developed in the cables and in the strut as the 300-lb crate hangs still.



If each cable can sustain up to a 300-lb tension, determine the largest crate weight that can be supported and the corresponding force developed along the strut.

