

Quiz 10

A massless strut of length L supports a 50 kg mass with the help of a horizontal cable which is attached at the strut's midpoint as shown below.

- 1) Draw a diagram showing (and naming) every force acting on the strut. Label the origin you are using for torques.
- 2) Write down the three equations of static equilibrium: $\Sigma F_x = 0$, $\Sigma F_y = 0$, $\Sigma \tau = 0$
- 3) Calculate the tension T in the cable.

