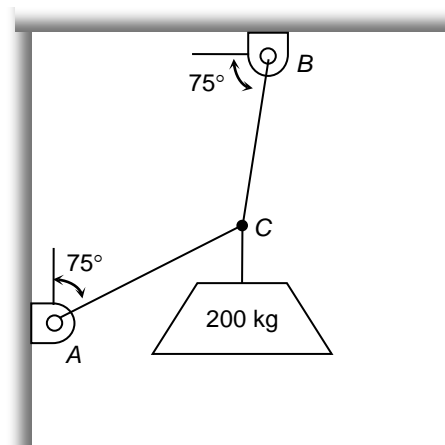## Example
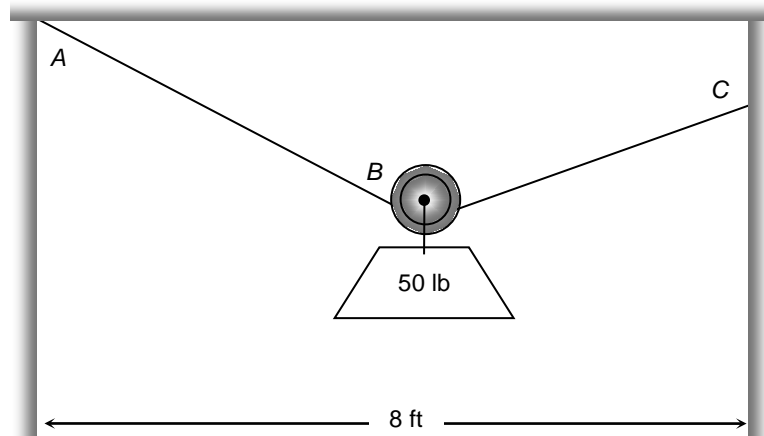
A 200-kg mass is suspended from two light, inextensible cables tied together as shown. Find the tension in cable AC and BC.

Example

A light inextensible cable of total length 10 ft is stretched between two walls 8 ft apart. A 50-lb weight is suspended from a massless, frictionless pulley on the cable. Find the tension in the cable.

Example

Two smooth steel pipes are stacked in a box. The masses and diameters of pipe A and B are, m_A = 5 kg, m_B = 20 kg, D_A = 100 mm and D_B = 200 mm, respectively. If the distance between the walls is b = 250 mm, find

(a) the magnitude of the two forces exerted on pipe A, and
(b) the force the bottom of the box exerts on pipe B.