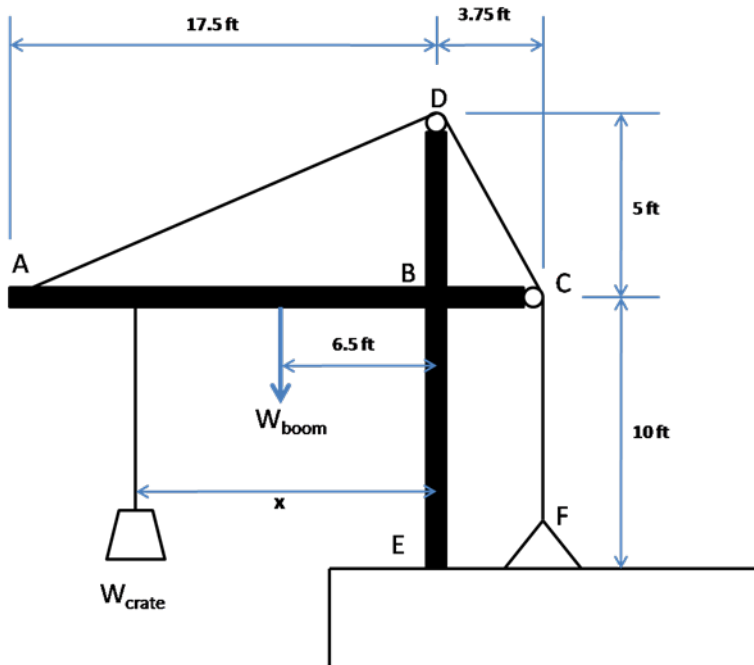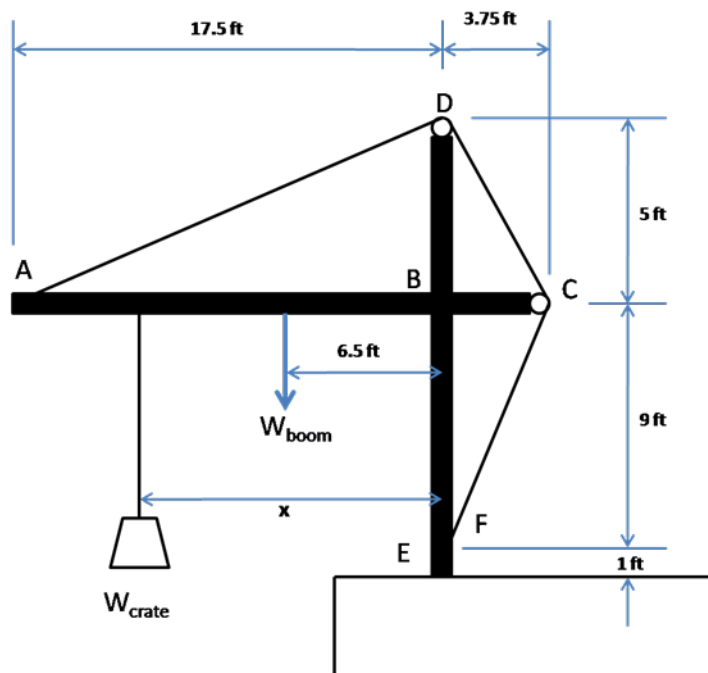# Example

The rig shown below consists of a 1200-lb boom ABC and a vertical member DBE welded together at B. (There are frictionless pulleys at both C and D.) The rig is being used to suspend a 3600-lb crate at a distance $x = 12$ ft from the vertical member. If the tension in the cable is 4 kips, determine the reaction at E.
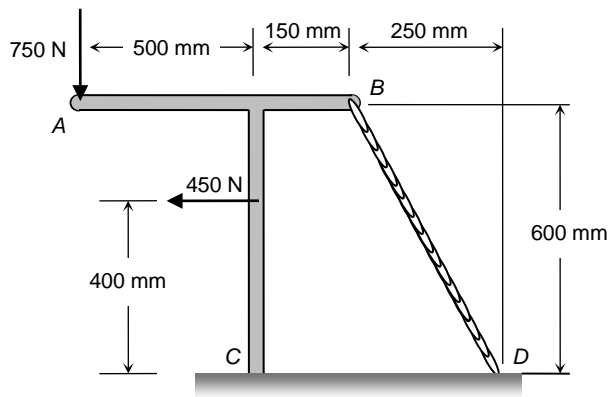
Example

If the cable attachment point in the last example is changed as shown below, find the new reaction at E.

Example

Knowing that the tension in the wire BD is 1300 N, determine the reaction at the fixed support C of the structure shown. Assume that the weight of the structure is negligible.

Example

Find the tension in the wire BD. Assume that the weight of the structure is negligible.