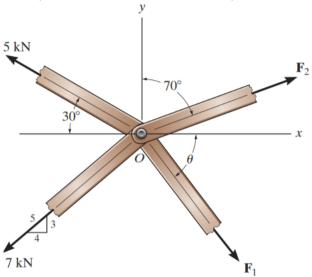
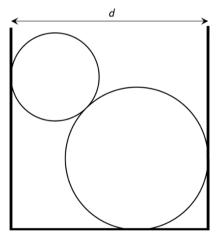
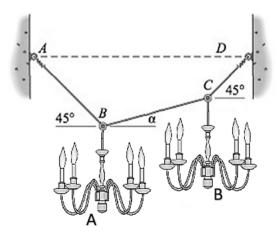
Problem 1. The truss members pin-connected at O are in static equilibrium. F_1 has a magnitude of 4 kN.



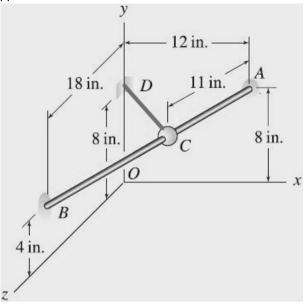
Problem 2. Two cylinders are packed in a trough of width d = 17 ft. The larger cylinder has a diameter of 12 ft and weighs 1250 lb, while the corresponding values for the smaller cylinder are 10 ft and 870 lb.



Problem 3. Two chandeliers – A and B weighing 75 and 50 kg, respectively – are supported by steel wires.



Problem 4. Rod AB is straight and has a bead at C. An elastic cord having 3-lb tensile force is attached between the bead and a support at D.



Problem 5. Fish catch is hoisted through an assembly of winch cable BD and members AB and CB. The cable can sustain tensions of up to 3 kN, and each member up to 2.5 kN.

