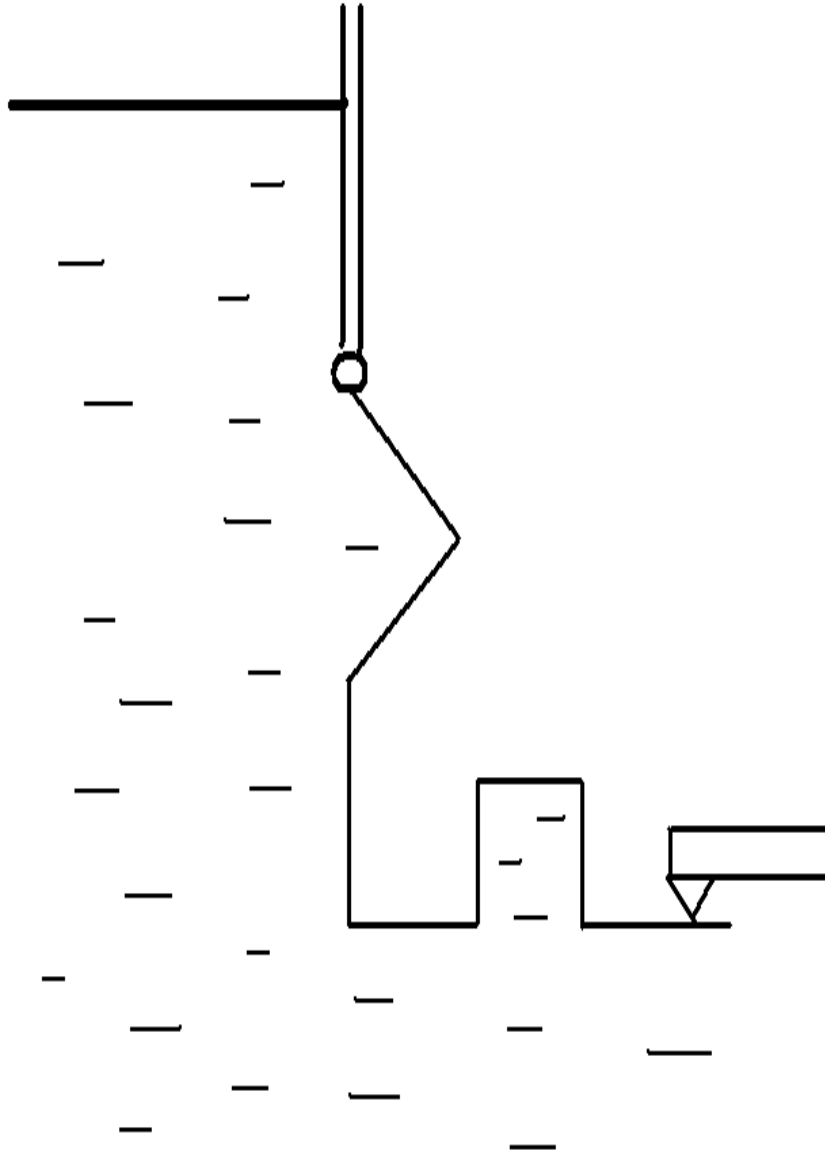
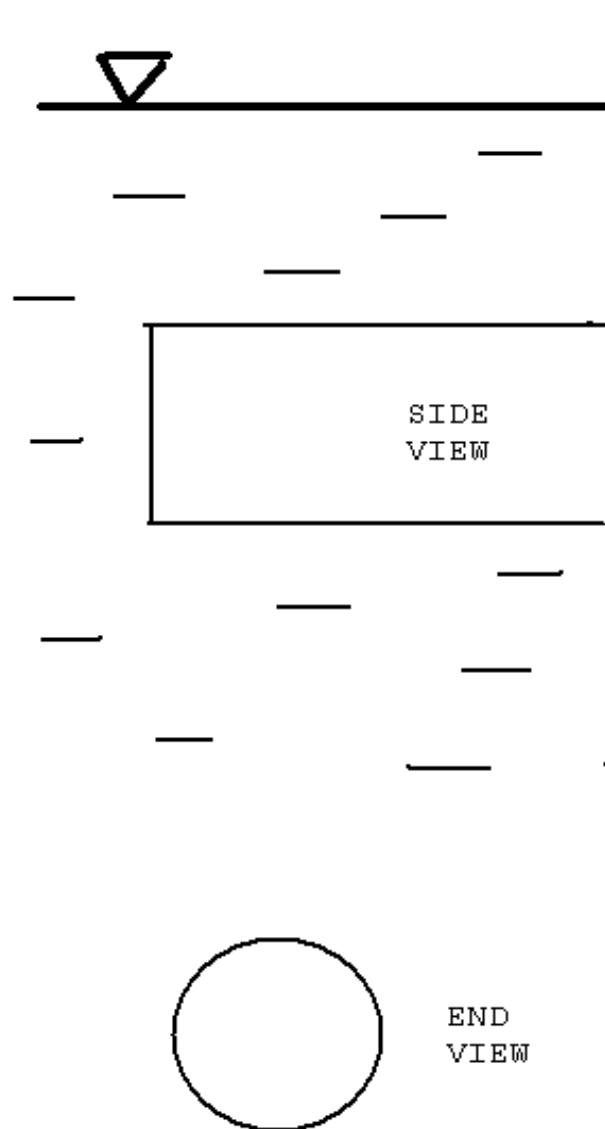


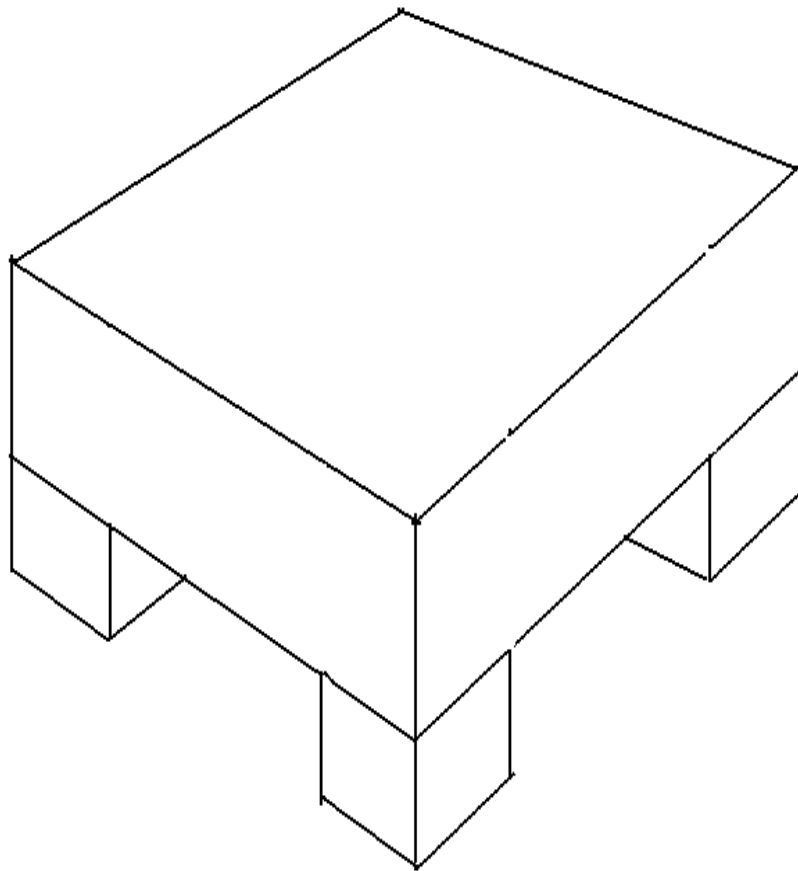
Outline how you would calculate the load on the gate below using the pressure weight method. Assume that all geometry is known.



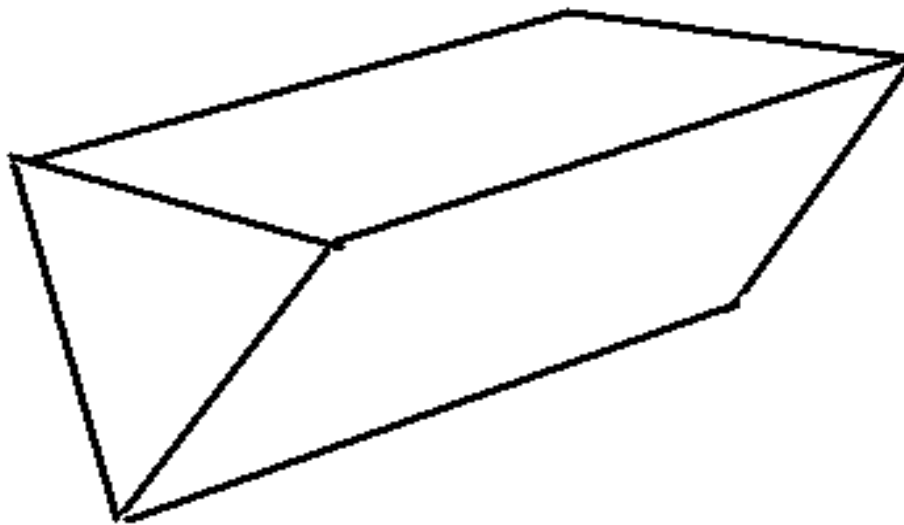
Outline how you would calculate the load on the gate below using the pressure weight method. Assume that all geometry is known.



The rig below has 4 square cross section legs.  
Calculate the metracentric radius of the rig.  
Assume that all geometry is known.



The barge below has a triangular cross section body. Calculate the metacentric radius of the barge. Assume that all geometry is known.



The rig below has 4 cylindrical legs and a box pontoon. Calculate the metacentric radius of the rig. Assume that all geometry is known.

