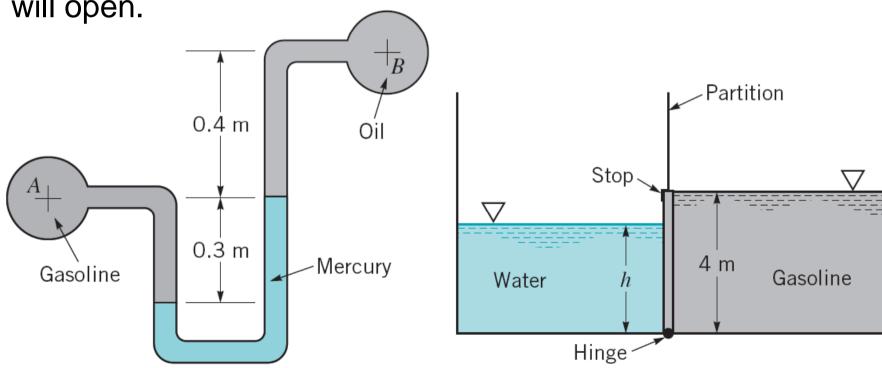
Probelms

2.24 Pipe A contains gasoline (SG=0.7), pipe B contains oil (SG=0.9). Determine new differential reading of pressure in A decreased by 25 kPa. The initial differential reading is 30cm as shown.

• **2.39** An open tank contains gasoline ρ =700kg/cm at a depth of 4m. The gate is 4m high and 2m wide. Water is slowly added to the empty side of the tank. At what depth h the gate

will open.



Problems

• 3.29 The circular stream of water from a faucet is observed to taper from a diameter 20 mm (at the faucet) down to 10 mm in a distance of 50 cm. Determine the flow rate.



 Water flows through a pipe contraction as shown below. Calculate flowrate as a function of smaller pipe diameter for both manometer configuration

