

# 4

## Problems

1-30. Determine the height of capillary rise of water in a glass tube with a diameter of 0.5 mm, (a) at  $50^{\circ}\text{F}$ , (b) at  $100^{\circ}\text{F}$ .

1-32. Determine the minimum size of glass tubing that can be used to measure water level, if the capillary rise in the tube is not to exceed 0.01 in.

1-34. A piezometer tube 1 mm in diameter contains mercury at  $68^{\circ}\text{F}$ . Give the magnitude of the effect of capillary action on the piezometer reading.

due Friday  
Jan 13<sup>th</sup>