

14-83



$$T_A = 30$$

$$W = 30$$



$$T_B = 20$$

water



$$T_C = 24 \text{ N}$$

other liq.

$$B: T_B + B = W$$

$$B = W - T$$

$$\rho_{\text{H}_2\text{O}} g V = 30 - 20$$

$$V = \frac{10}{1000(9.8)} = .00102$$

$$c: T_c + B = W$$

$$B = W - T_c$$

$$\rho_{\text{liq}} g V = 30 - 24$$

$$\rho_{\text{liq}} = \frac{6}{(9.8)(.00102)} = \underline{\underline{600.2 \text{ kg/m}^3}}$$