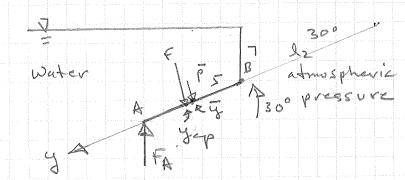


PROBLEM 3.73

The rectangular gate measures 10 ft by 6 ft of the first of the first of the gate rests at A is frictionless, and if the water surface is 7 ft above point B, what is the reaction at A? Neglect the weight of the gate.



$$f = pA \qquad A = 2 \times 6 = 10 \times 6 = 60 \text{ p}^{2}$$

$$p = 37 \text{ sin } 30^{\circ} \quad 8 = 62.4 \text{ 1sf/p}^{3}$$

$$f = 35,568 \text{ 1sf} \qquad 7 = 5 + 2 \quad 2 = 7 / \sin 30^{\circ}$$

$$= 19 \qquad = 14$$

$$y_{cp} = 7 + \frac{1}{7} = 19 \quad = 19 \quad = 19$$

$$= 19 \quad = 19 \quad = 19$$

$$= 19 \quad = 19 \quad$$