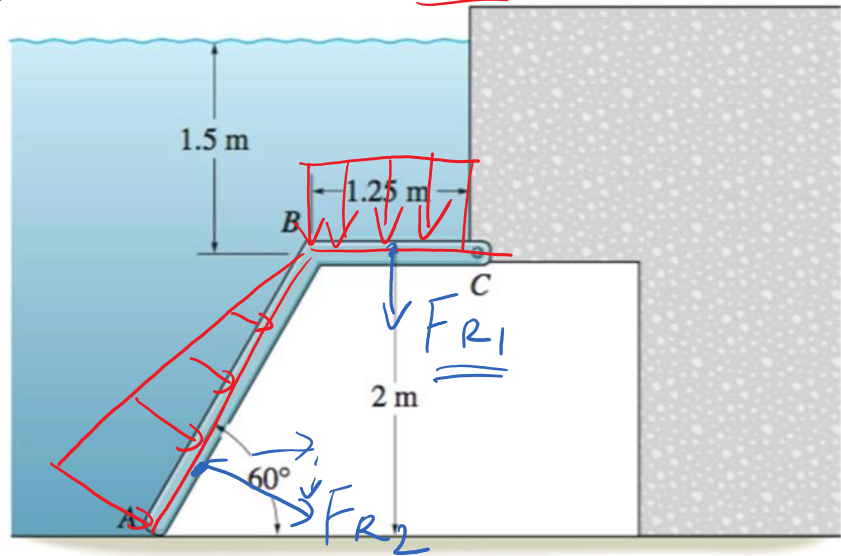
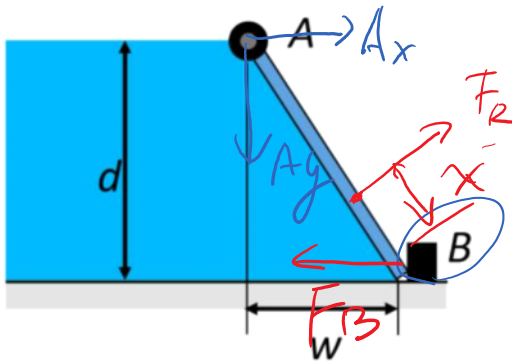


Determine the magnitude of the resultant force acting on gate ABC due to hydrostatic pressure. The gate has a width of 1.5 m . w
($\rho_{\text{water}} = 1\text{ Mg/m}^3$)

$$F_{Rx} =$$

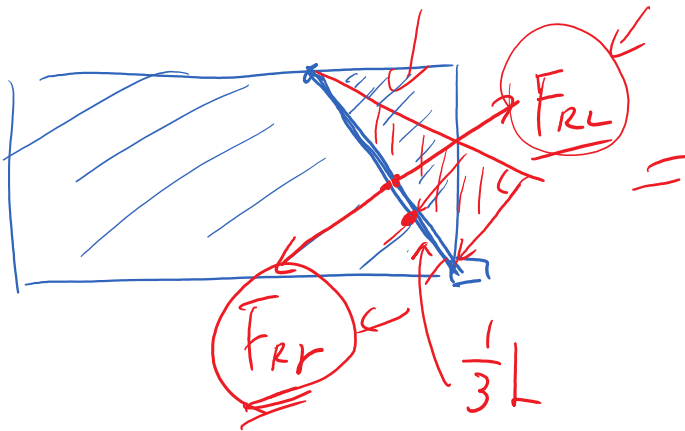
$$F_{Ry} =$$



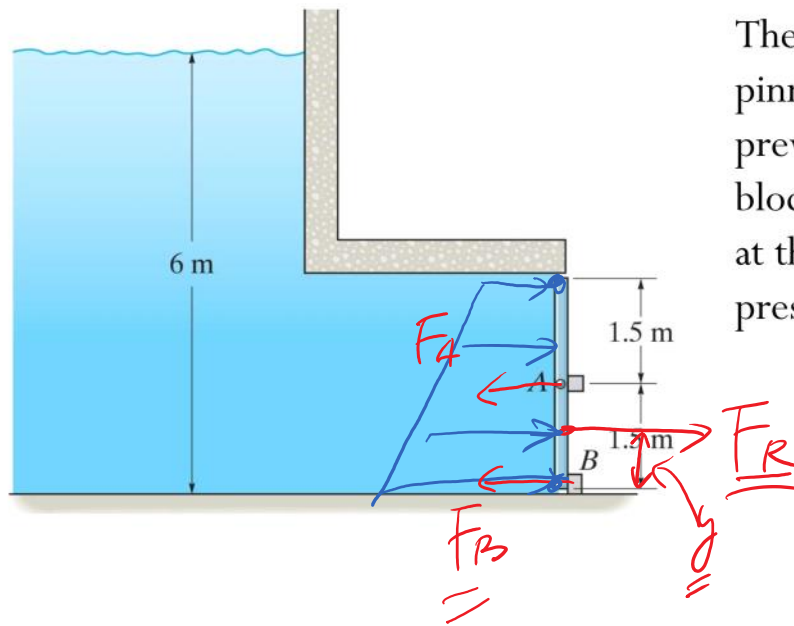


Determine the magnitude of the support reaction at the gate stopper B . The water level is $d = 4$ m, $w = 3$ m, and gate AB has a width of 2 m. ($\rho_{\text{water}} = 1 \text{ Mg/m}^3$)

$$x = \frac{1}{3} AB$$



$$\begin{array}{ccc} \triangle & + & \triangle \\ h & + & v \end{array}$$



The 2-m-wide rectangular gate is pinned at its center A and is prevented from rotating by the block at B. Determine the reactions at these supports due to hydrostatic pressure.