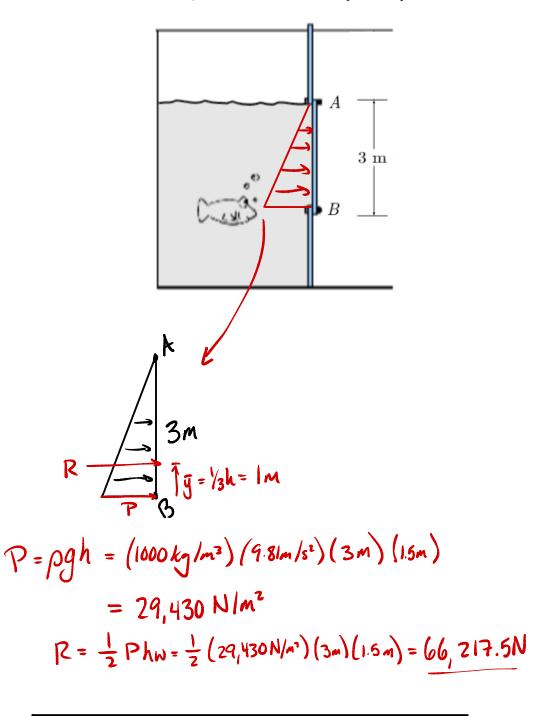
A non-communicating calculator is allowed. Full credit will only be given if all steps used are clearly communicated (free body diagrams, algebra, etc).

An aquarium tank has a  $3m \times 1.5m$  window AB for viewing the inhabitants. The tank contains water with a density  $\rho = 1000 kg/m^3$ .

Find the force of the water on the window, and the location of the equivalent point load.



:. R = 66.2KN -> at y = In from B (or 2m from A)