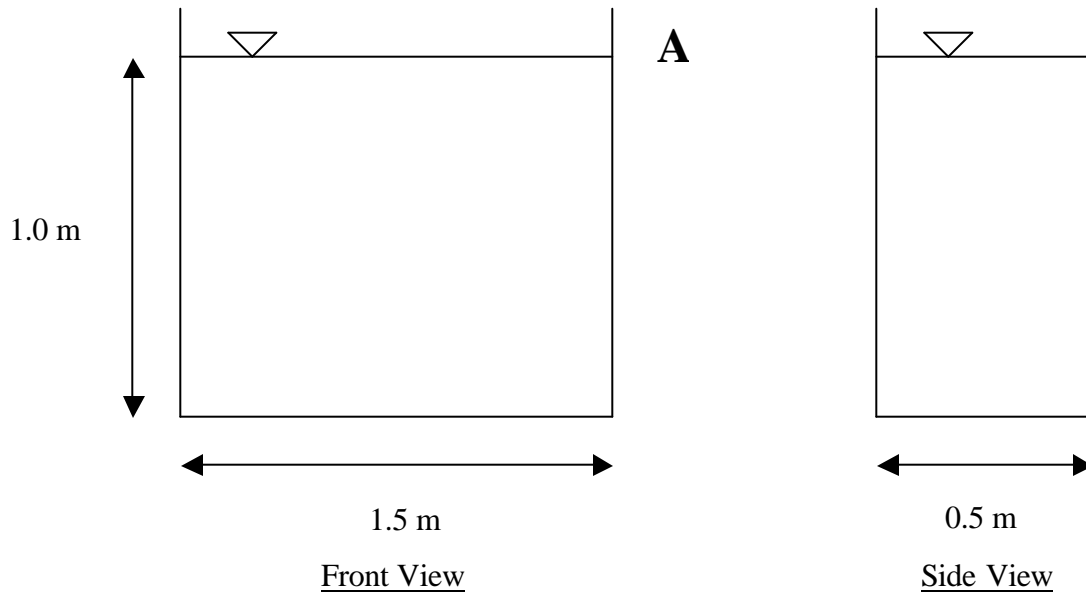
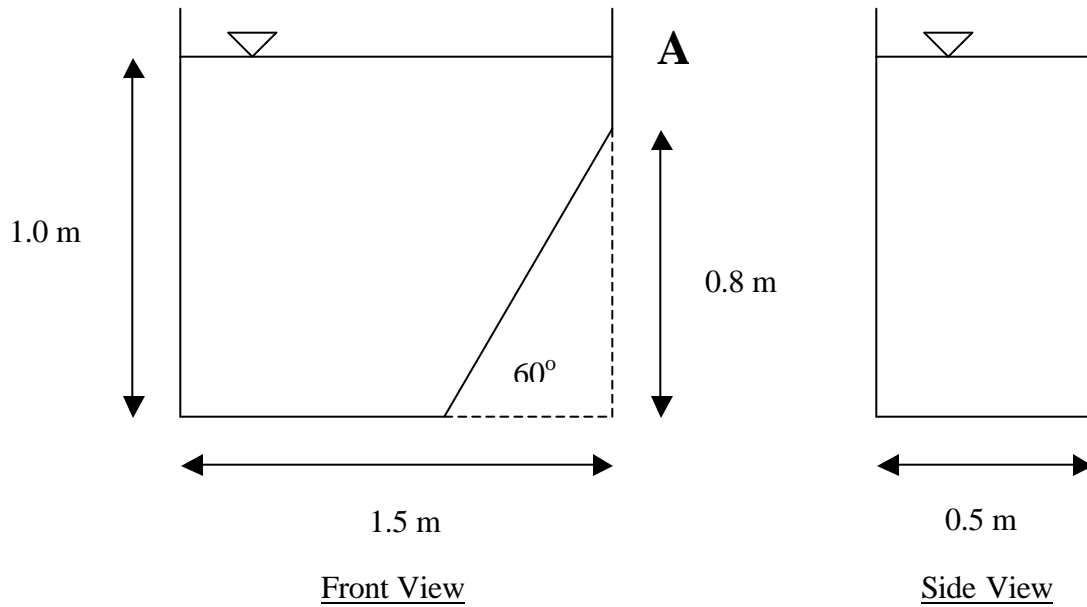


1. Vertical Surface: Given the following fish tank in the form of a rectangular prism:



- What is the pressure at the bottom of the tank?
- Sketch the pressure distribution on the side wall.
- Find the total force on one of the side wall (front view).
- Find the total moment on the respective side wall about Point A.
- Find the center of pressure.

2. Oblique Surface: If one of the side walls is slightly sloped at 30° , what will the followings be different?



(a) Your analysis?

(b) Your results (take a first guess before you attempt.)

3. Curved Surface: If the slope is replaced by a concave or convex surface, what do you expect the results to be

