LAB 1 PARTICIPATION ACTIVITY

| TANK | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| RADIUS (m) | 3.3 | 2.9 | 3.5 | 3.6 | 2.7 |
| HEIGHT (m) | 5.1 | 4.7 | 6.4 | 6.1 | 4.9 |
| VOLUME ($m^3$) | 170 | 120 | 250 | 250 | 110 |
| S AREA ($m^2$) | 170 | 140 | 220 | 220 | 130 |

$(V_{tank})_1 = \pi \cdot (3.3m)^2 \cdot 5.1m = 174.480914338 77\ m^3$

$(V_{tank})_2 = \pi \cdot (2.9m)^2 \cdot 4.7m = 124.177732818 4\ m^3$

$(V_{tank})_3 = \pi \cdot (3.5m)^2 \cdot 6.4m = 246.300864041 4\ m^3$

$(V_{tank})_4 = \pi \cdot (3.6m)^2 \cdot 6.1m = 248.361748827 2\ m^3$

$(V_{tank})_5 = \pi \cdot (2.7m)^2 \cdot 4.9m = 112.220831178 9\ m^3$

$(S_{tank})_1 = 2\pi \cdot (3.3m) \cdot 5.1m + 2 \cdot \pi (3.3m)^2 = 174.169896715\ m^2$

$(S_{tank})_2 = 2\pi \cdot (2.9m) \cdot 4.7m + 2 \cdot \pi \cdot (2.9m)^2 = 138.481404170 2\ m^2$

$(S_{tank})_3 = 2\pi \cdot (3.5m) \cdot 6.4m + 2 \cdot \pi \cdot (3.5m)^2 = 217.712370893 8\ m^2$

$(S_{tank})_4 = 2\pi \cdot (3.6m) \cdot 6.1m + 2 \cdot \pi \cdot (3.6m)^2 = 219.406630926 7\ m^2$

$(S_{tank})_5 = 2\pi \cdot (2.7m) \cdot 4.9m + 2 \cdot \pi \cdot (2.7m)^2 = 124.930962503 3\ m^2$