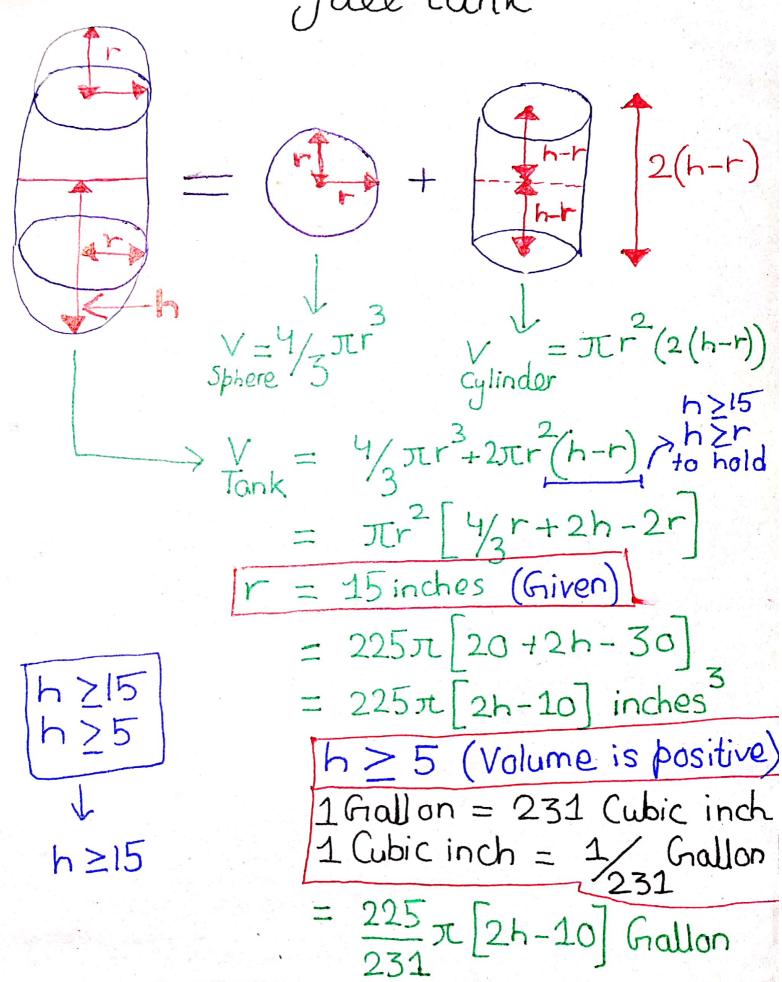
A cylinderical vertical fuel tank



Mathematical model would not remain the same for height between 0 and 15.

There would be no cylinderical portion within this range.

Volume =
$$\frac{4}{3}\pi r^2 h$$
 cubic inche Ellipse = $\frac{4}{3}\pi r^2 h$ Gallon = $\frac{4}{693}\pi r^2 h$ Gallon