How high in meters should a column of water be to exert the pressure equal to that of a 760 mm column of mercury.

Pressure = Force/ area

F = mass x acceleration

$$\text{Pressure} = \frac{\text{mass} \times \text{acceleration}}{\text{area}}$$

$$\frac{\text{Mass (Hg)} \times g}{\text{area}} = \frac{\text{mass (water)} \times g}{\text{area}}$$

Mass (hg) = Mass (water)

D=m/V  m=DV  V= l x w x h = area x h

D(Hg) x h(Hg) = D (water) x h (water)

$$h(\text{water}) = \frac{D(Hg) \times h(Hg)}{D(\text{water})} =$$