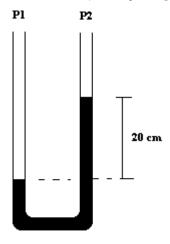
TOPIC

Fluids – Section X – Question 3

QUESTION

Consider the manometer shown. The dark fluid is mercury (density = 13.6 gm/cm^3 and the light fluid is water (density = 1 gm/cm^3). The difference in pressure $P_1 - P_2$ in kPa most nearly is



- (A) 2.00
- (B) 22.7
- (C) 24.7
- (D) 26.7

HINTS

- Pressure in a fluid depends on height of fluid by ρgh where h is the height of fluid.
- The pressure at the bottom of the tube is the same whether calculated from the left or the right branch.

CONTRIBUTOR

Scott Campbell