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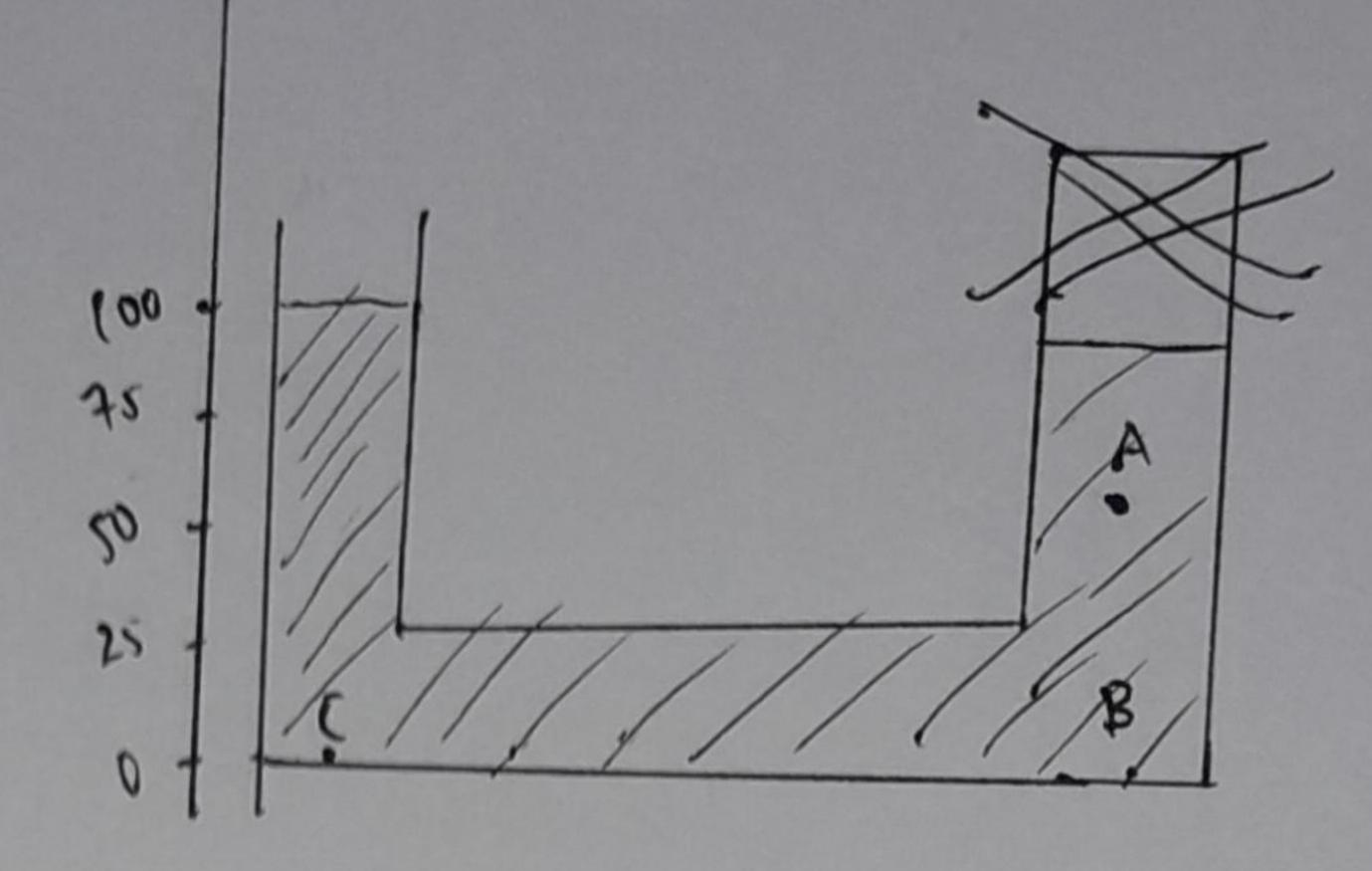
## Homework 3

The container shown in figure is filled with oil. His open to the

atmorphere on the left.

a. What is pressure at point A?

b. What is pressure difference best between points A and B? Between A and C?



a) ha = 50 cm = 0,5 m Poil = 900 kg/m' Patm: 104.725 % 9 = 9,8 m/s

\* Presure At A -> PA = latm # pghs = 1021325 + 900.9,8.015 = 10,1325 + 4410 = 105.735 Pa = 105,7 KPa.

b. ha = 50 cm = 0,5 m hb = 100 cm = 1 m hc = 100 cm = 1 m

PA = Paten + pghA
PB = Paten + pghB

PB-PA = (Paten + pghB) - (Paten + pghB) = (9 (hB-hA) = 900.9,8(1-0,5) = 4410 Pn.

# Diff. of A and C Pc-PA = (Paton + pghc) - (Paton + pghA) = PgCho-ha) = 900.9,8 (1-015) = 4410 Pa