Ex 1



Two imiscible liquids with specific gravity 0.72 and 1.2 are in contact with repective tibes A and B. Calculate the heights in A and B.

Ex2



Calculate the pressure difference between A and B

Ex3



Calculate y

Ex 4



Calculate the sp gr of liquid B

Ex5



Calculate height in tube E,F and G and h1

Ex 6



Calculate h if

1. the presuure in a is 0.96 bar and there is no fluid flow.
2. There is an ideal fluid flow with v=3m/s and the tube makes contact with the fluid after the convergent. D1=20cm and D2=10cm.

Ex 7



A tube has a diameter of 2m and this diameter decreases to 1m. The tube is filled with water. Manometer 1 shows a pressure of 4.8bar. What pressure will be show non manometer 2 if

1. There is no flow in the tube
2. There is a flow: v1= 2m/s

Ex 8



What is the speed of the fluid at point 2 (so v2)

Calculate the pressure at point 3

Ex 9



Calculate the flow of the water in reservoir B if the pressure at A is 3bar and at B 1.5bar

What pressure do we need to have at A if the flow is 20m3 per hour.

(section of the pipe is 20cm)