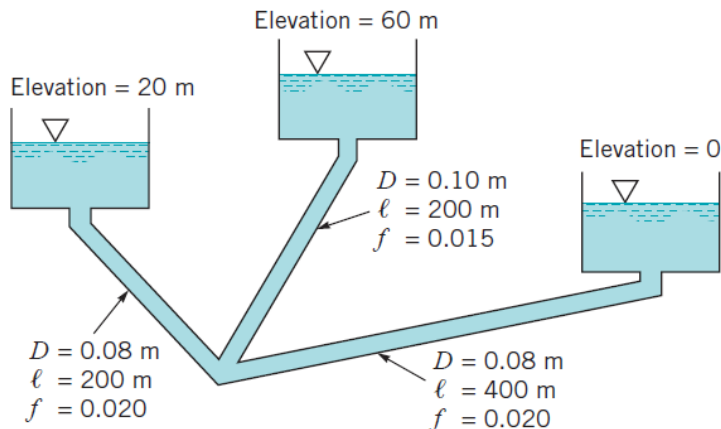
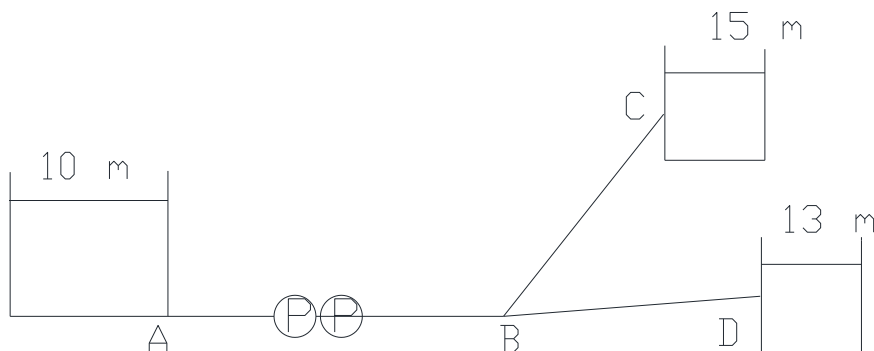


CE376 HYDROMECHANICS
HOMEWORK-II
DUE DATE: 19.03.2020

Q1) The three water-filled tanks shown in Figure are connected by pipes as indicated. If minor losses are neglected, determine the flowrate in each pipe and total at the junction Hj.



Q2) Water is pumped from reservoir A to reservoir C and D. Assume that all the pipes have the same characteristics as friction factor $f=0.01$, neglect minor losses, take pipe diameter $D=0.2$ m and pipe length $L=1000$ m. Compute the flow rates(Q) to reservoir C and D and the total head at the junction H_B .



The pump curve characteristics are,

Q(lt/s)	0	50	100	150	200
Hp(m)	100	98	96	94	93