

Problem 3 ( Pipe Line Systems)

For the system shown in Fig.2, calculate the vertical distance between the surfaces of the two reservoirs when water at  $10^{\circ}\text{C}$  flows from A to B at the rate of  $0.03 \text{ m}^3/\text{s}$ . Both pipes are cast iron and the elbows are standard. The total length of the 3-in pipe is 100m. For the 6-inch pipe it is 300m.

