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Solution : The equation of continuity :  $A_1 v_1 = A_2 v_2$ .  $8 v_1 = (2)(2) 8 v_1 = 4$ .  $v_1 = 4 / 8 = 0.5$  m/s. 9. If the diameter of the larger pipe is 2 times the diameter of smaller pipe, what is the speed of fluid at the smaller pipe. Known : Diameter of the larger pipe ( $d_1$ ) = 2. Radius of the larger pipe ( $r_1$ ) =  $\frac{1}{2} d_1 = \frac{1}{2} (2) = 1$

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Example 30 Inthepipesystemdepictedbelow,thedischargeinpipeABis100 m<sup>3</sup>/sec. Branch 1 is 500 m long, and it has a diameter of 2 m and a friction factor of 0.018. Branch 2 has a length of 400 m, diameter of 3 m, and a friction factor of 0.02.

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Solution The pressure in a tank is measured with a manometer by measuring the differential height of the manometer fluid. The absolute pressure in the tank is to be determined for two cases: the manometer arm with the (a) higher and (b) lower fluid level being attached to the tank. Assumptions The fluid in the manometer is incompressible.

### CHAPTER 3 PRESSURE AND FLUID STATICS

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