



A rectangular, sharp-crested weir with both ends contracted is 2.4 m long. How high should the crest be placed in a channel to maintain an upstream depth of 2.35 m for a flow of 400 L/s?

A trapezoidal weir with top length of 7 m and bottom length of 4 m is under a head of 2 m. Compute the discharge if  $C = 0.50$ .

A rectangular suppressed weir of length 5 m is constructed on top of a tall rectangular tank having a horizontal section 20 m x 20 m. If the initial head over the weir is 1.2 m, compute the time required to discharge 72 cu. m. of water. Use Francis formula.

A circular vessel 2 m in diameter and 3 m. high is filled with liquids A, B and C. Liquids A, B and C has specific gravities 0.8, 2.0 and 1.0 respectively. All liquids have heights of 1.0 m each. At the bottom of the vessel is a 0.01 m<sup>2</sup> standard orifice,  $C = 0.60$ .

- Find the time to remove liquid A out of the container
- Find the time to remove liquid A and B out of the container.
- Find the time to empty the container.

Two vertical cylindrical tanks 1 and 2 having diameters 2 m and 3 m, respectively, are connected with a 200-mm-diameter tube at its lower portion, and having  $C = 0.60$ . When the tube is closed, the water surface in tank 1 is 5 meters above tank 2. How long will it take after opening the tube, for the water surface in tank 2 to rise by 3 meters?

An oil with  $\rho = 900 \text{ kg/m}^3$  and  $\nu = 0.0002 \text{ m}^2/\text{s}$  flows upward through an inclined pipe as shown. Assuming steady laminar flow,

- Find the headloss between (1) and (2).
- Find the velocity of flow.
- Compute the Reynold's number.

The total headloss from A to D is 24 m. Determine the discharge in each pipes.

A large water tank is the source of water supply and is at Elev. 150 m. The junction of the pipe system is at Elev. 22.5 m with pressure head of 70 m of water. A town is at Elev. 30.5 m with a population of 25,000, and another town is at Elev. 15.2 m with a population of 30,000. Length of pipeline 1 is 15,240 m, pipeline 2 is 9150 m, and pipeline 3 is 6300 m. The consumption is 150 liters per capita per day. For all pipes, friction factor  $f = 0.02$ . Determine the required diameter, in meters, of

- pipeline 1
- pipeline 2
- pipeline 3



# Hydraulics Study Guide

**Y Pai**



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