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CVEN 311-503 – “Fluid Dynamics”

Quiz #6 – Fall 2011

Prof. Brumbelow

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Water ( $\rho = 1.94 \text{ slugs/ft}^3$ ,  $\mu = 2.34 \times 10^{-5} \text{ lb}\cdot\text{sec/ft}^2$ ) flows from an upper reservoir to a lower reservoir through a pipe as sketched below. The pipe changes diameter as indicated. Minor losses may be neglected. A copy of the Moody diagram is given on the back of the page. *What will be the flowrate (cfs) in the pipe?*



