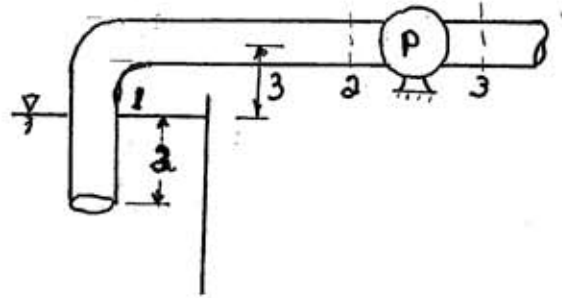


Basic Laws for Finite Systems - 4

3.8 Water is pumped from the reservoir at the rate of $\dot{q} = 0.025 \text{ m}^3 / \text{ s}$ through a 7.5 cm diameter pipe. If the pump delivers 1500 watts, what is the pressure at point 3?



3.9 Water flows from a tank at the rate of $\dot{q} = 0.08 \text{ m}^3 / \text{ s}$ to drive a turbine. What is the work rate of the turbine?

