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CVEN 311-503 – “Fluid Dynamics”

Quiz #3 – Fall 2011

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1. What 3 forms of energy are represented by terms in the Bernoulli equation?

2. An inviscid fluid ( $\gamma = 12.3 \text{ kN/m}^3$ ) flows through the circular conduit as diagrammed below at  $4.91 \cdot 10^{-3} \text{ m}^3/\text{s}$ . The pressure at point 1 is  $141 \text{ kN/m}^2$ . What are the fluid pressure ( $\text{kN/m}^2$ ) and velocity ( $\text{m/s}$ ) at point 2?

