

$$\text{Try } y = 0.6; \quad Q = \left(\frac{1}{0.013} \right) (0.9 + 0.72) \left(\frac{0.9 + 0.72}{4.18} \right)^{2/3} (0.002)^{1/2} = 2.96 \text{ m}^3/\text{s}$$

since $2.96 = 3.0$, the assumed value for y is okay.

Therefore, use $y = 0.60 \text{ m}$ and use continuity to find the velocity ($V = Q/A$)

$$V = 3.0 / (0.9 + 0.72) = 1.85 \text{ m/s}$$