

Numerics Answers

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Question 4,

(a) $U_\tau = 1.2 \text{ m/s}$, $C_f = 0.00222$.

(b) $Re = 22026$.

(c) $\left(\frac{\partial U}{\partial y}\right)_{y=0} = 96000 \text{ 1/s}$.

Question 8,

(b) $U_{\text{exit}} = 16.7 \text{ m/s}$, $U_{\text{worksection}} = 58.45 \text{ m/s}$. Power factor 0.08.