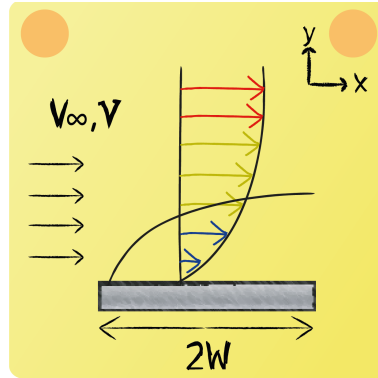




Lecture 2 Question 6

Give an expression for the Reynolds number Re_L for the given situation in the figure based on known parameters.



The general expression for the Reynolds number is $Re_L = \frac{\rho u_\infty L}{\eta}$, where the characteristic length for the given case is $L = 2W$ and $\nu = \frac{\eta}{\rho}$.

Thus:

$$Re_L = \frac{u_\infty 2W}{\nu}$$