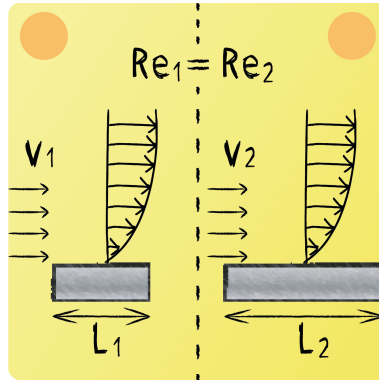# Lecture 4 Question 10

Give an expression for the velocity of the right figure v_2.

$$\text{Re}_1 = \text{Re}_2$$

$$\frac{v_1 \cdot L_1}{\nu_1} = \frac{v_2 \cdot L_2}{\nu_2}$$

$$v2 = \frac{v_1 \cdot L_1 \cdot \nu_1}{\nu_1 \cdot L_2} = \frac{1}{4} \cdot v_1$$