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**Applied Fluid Mechanics**

**Class Section 01**

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# **Problem 9.4**

Text

Description automatically generated

**Solution:**








# **Problem 9.10**

Text, letter

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**Solution:**

The boundary conditions for the laminar boundary-layer velocity profile is

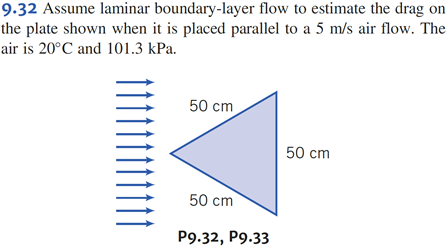
When ,

which satisfies the boundary condition.

When ,

which does not satisfy the boundary condition.

# **Problem 9.32**



**Solution:**

Therefore, the flow is laminar.

# **Problem 9.33**

Text

Description automatically generated

**Solution:**

Therefore, the drag is larger than that of Problem 9.32.