

ANSWER SHEET

Name: _____ Metric Number: _____
Section / Group: _____ Date of experiment: _____

Ideal Flow around submerged circular model

1) Draw out the flow line into the Figure 5 below.

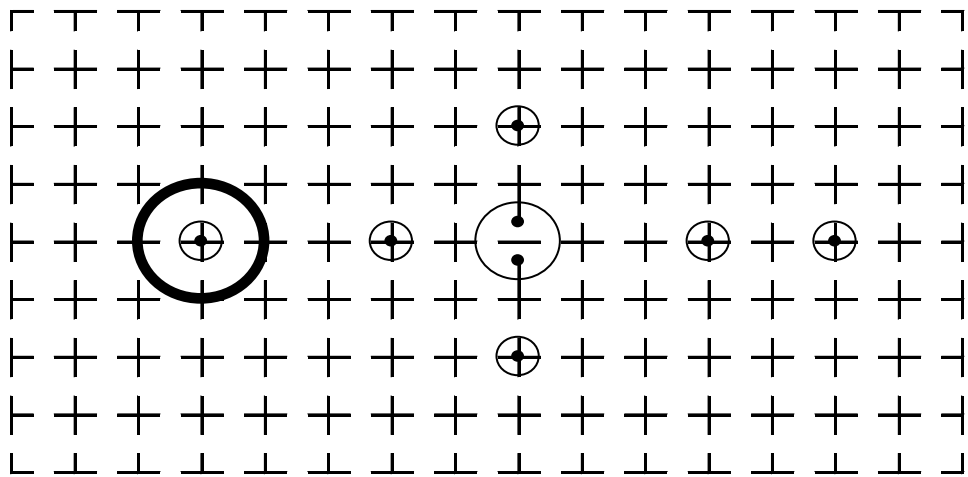


Figure 1

2) States and explain the characteristic of flow pattern in this experiment.

Ideal Flow around submerged aerofoil/wing model

1) Draw out the flow line into Figure 7 below.

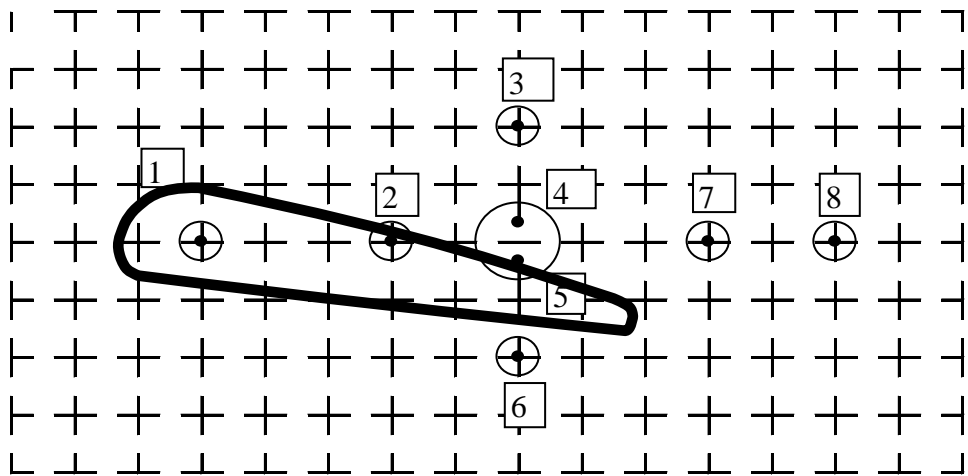


Figure 2

- 2) Find the stagnate point and marks it to Figure 2.
- 3) How does an aerofoil produce lift?

Ideal Flow around submerged square model

- 1) Draw out the flow line into Figure 9 below.

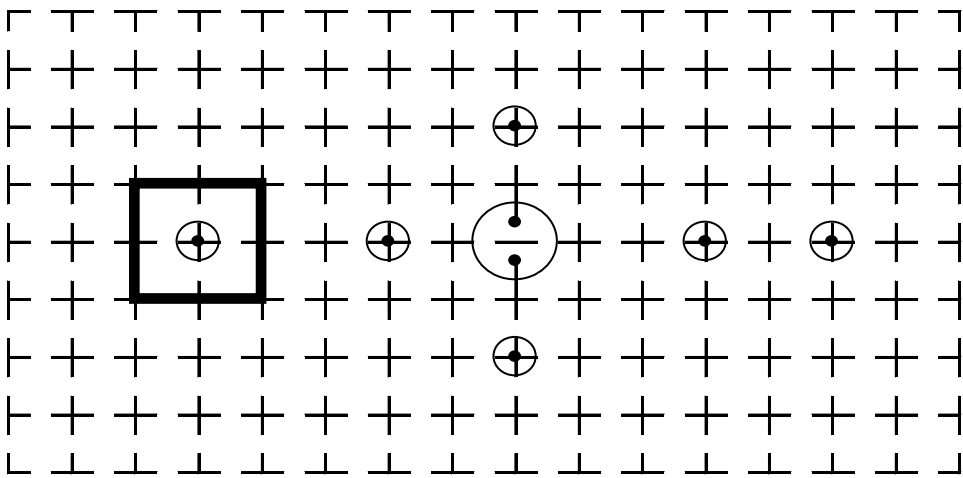


Figure 3

- 2) What does it mean by the pressure recovery?

Ideal Flow through an 90 degree elbow

1) Draw out the flow line into Figure 11 below.

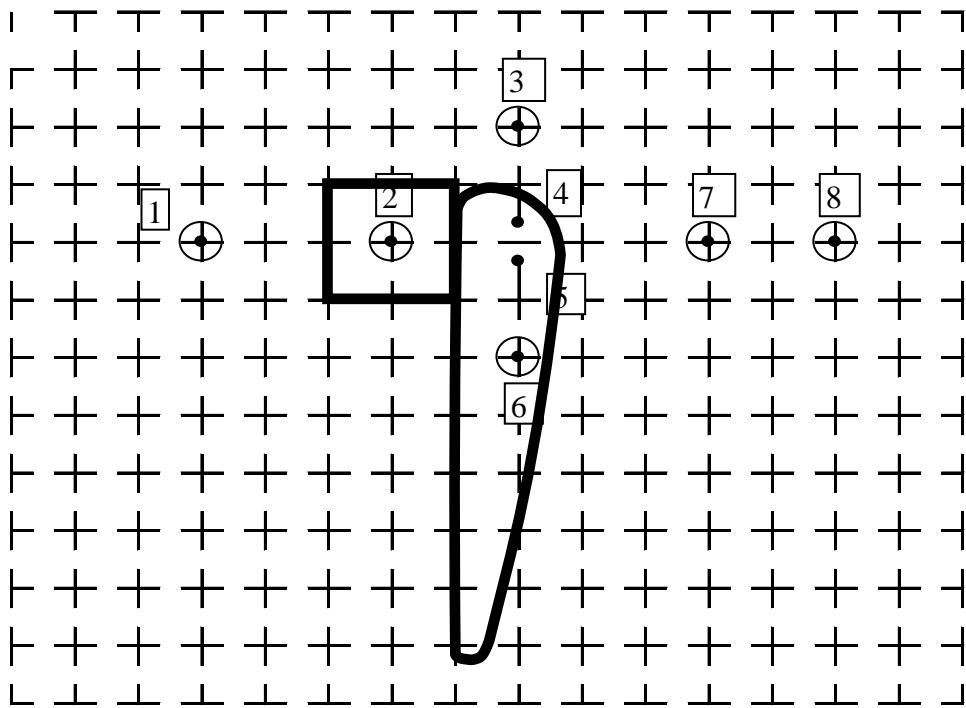


Figure 4

Ideal flow in minimum frontal area object

1) Draw out the flow line into Figure 15 below.

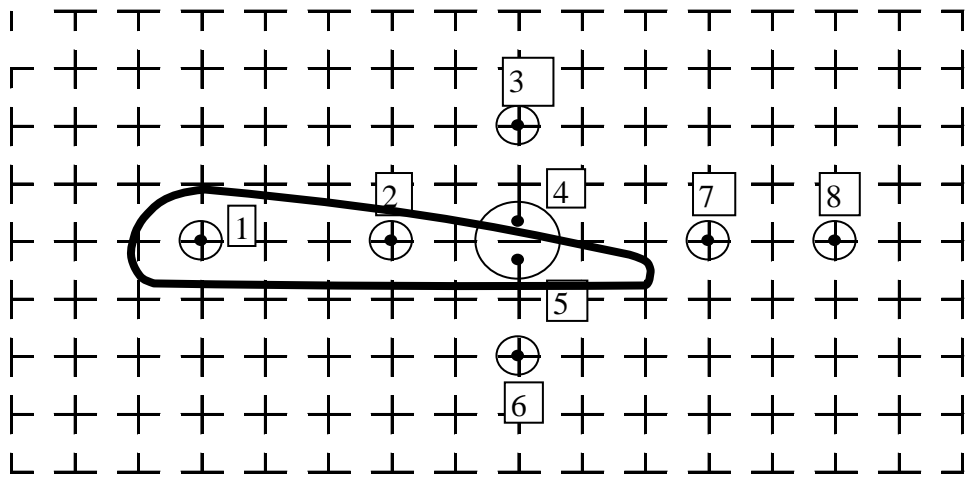


Figure 5

2) From the experiment above, what can we conclude?

3) What is the amplitude of pressure drag compare with skin friction drag?

Ideal flow associated to sources

1) Draw out the flow line into Figure 13 below.

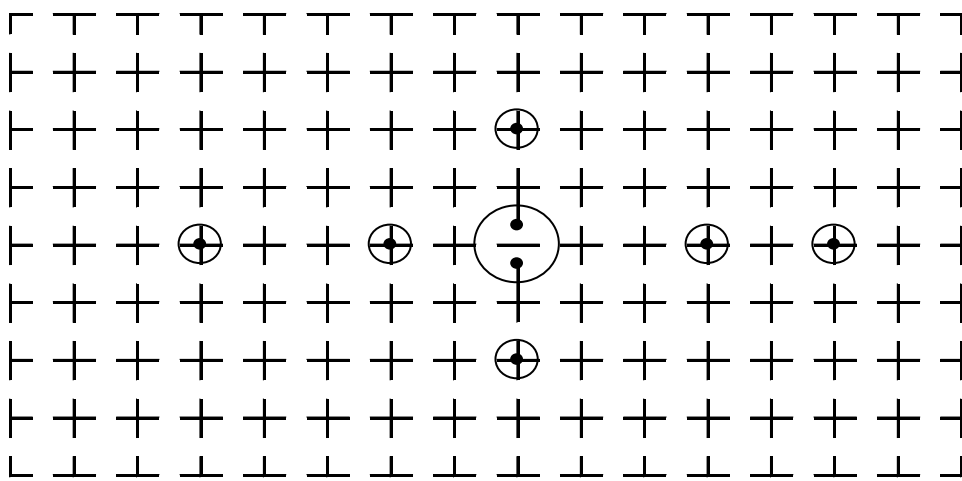


Figure 6

2) States and explain the characteristic of flow pattern in this experiment.

CONCLUSION

Overall, what can be concluded regarding the flow pattern through the whole experiment?