**Assignment 3**

Devyesh Tandon

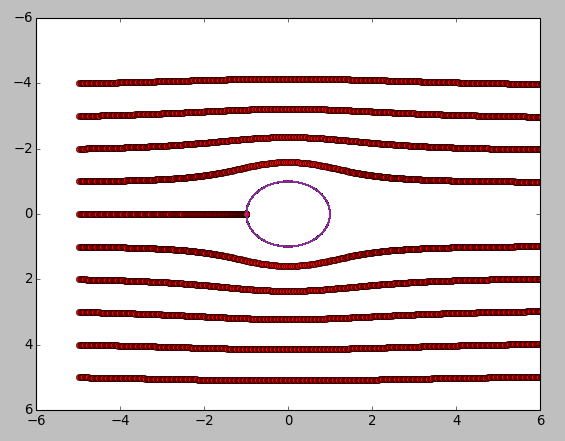
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**Question 1**

time\_step = 0.01

Uniform Field Strength = 3

Number of Panels = 30



The traces enter the cylinder if the discretization length of Panels on th Cylinder is large. We face similar situationwhen strength of uniform flow is arbitarily high.

**Question 2**

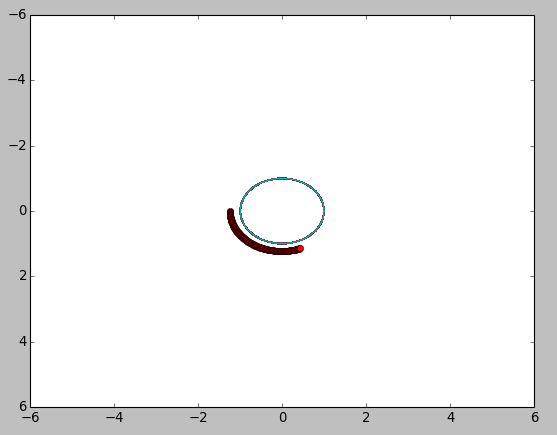
time\_step = 0.1

Strength of Vortex = 5

Number of Panels = 30

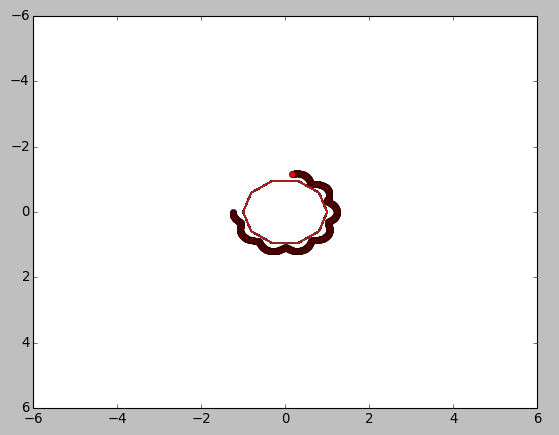
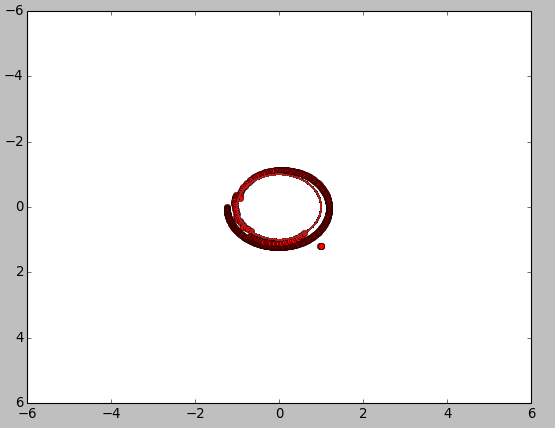
Cylinder Radius = 1

Simulation Time = 5 sec



Number of panels = 50 Number of panels = 10

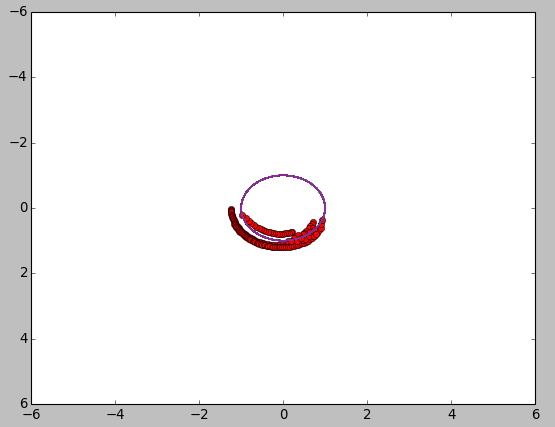
Strength = 5



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Number of Panels = 50

Strength = 15



Question 3

Simulation using image method

