

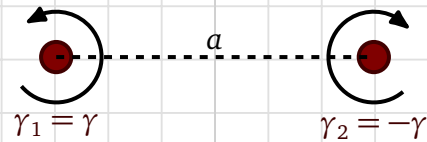
ME-445 AERODYNAMICS

03 - Potential flow theory



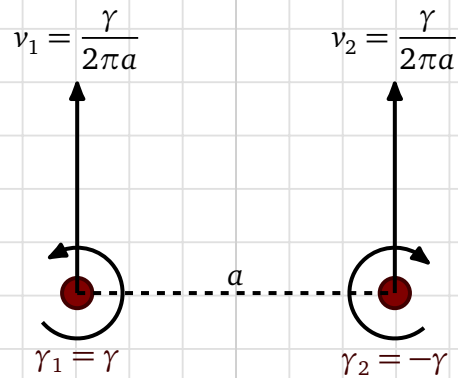
Interaction of point vortices

What would be the trajectory of this vortex pair?



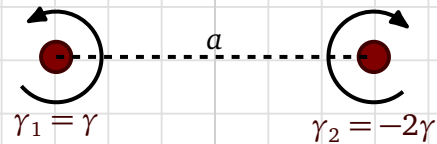
Interaction of point vortices

What would be the trajectory of this vortex pair?



Interaction of point vortices

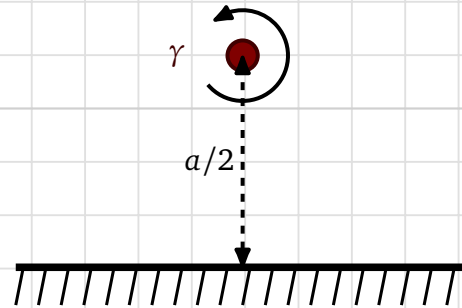
What would be the trajectory of this vortex pair?



Interaction of point vortices with walls

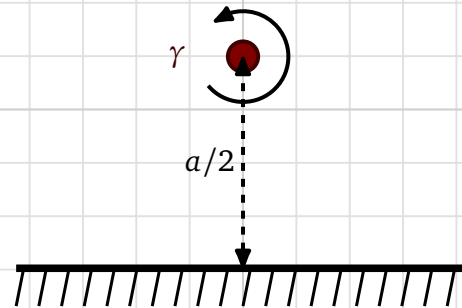
What would happen to this vortex?

- (A) it splits in 2 parts
- (B) it disintegrates
- (C) it moves to the left
- (D) it moves to the right
- (E) it bounces back up



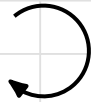
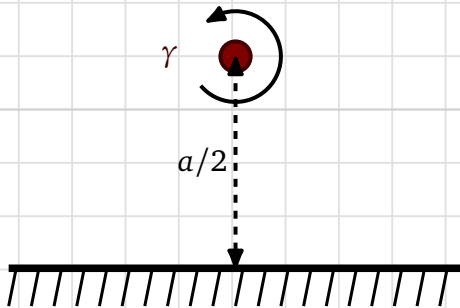
Interaction of point vortices with walls

What would happen to this vortex?

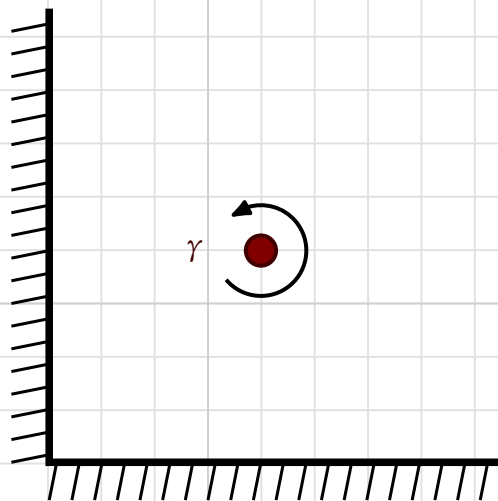


Interaction of point vortices with walls

What about the pressure at the wall?

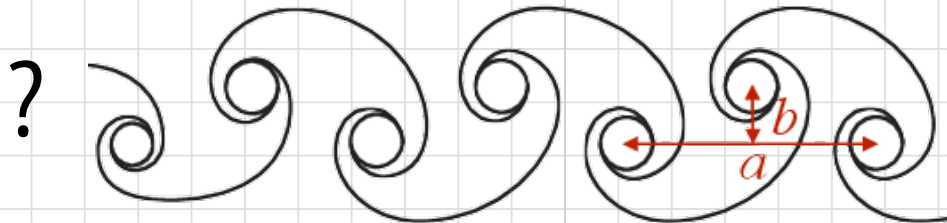
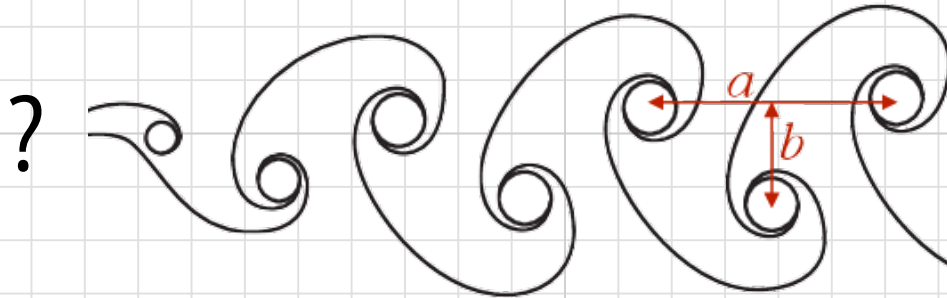


Interaction of point vortices with walls

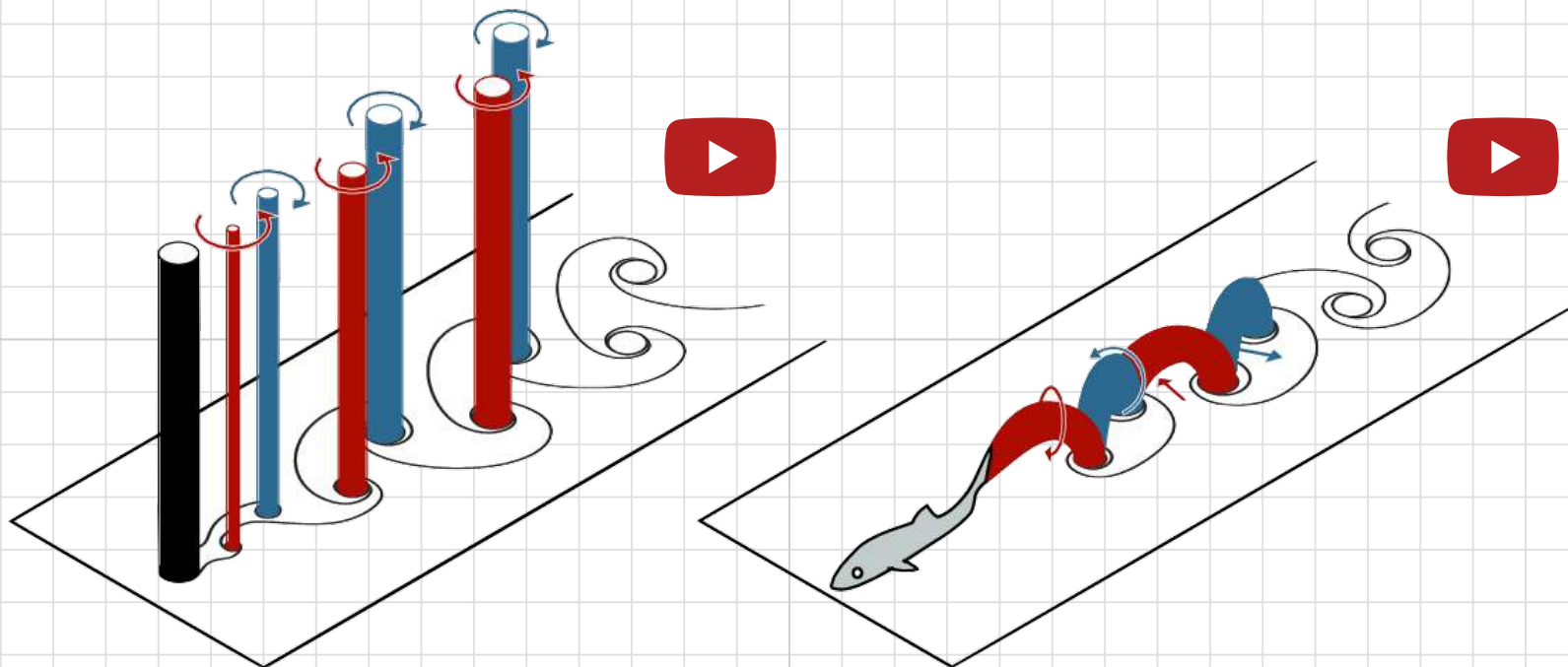


Vortex wakes

One of the images shows the wake behind a cylinder, the other one shows the wake behind a fish. Which image belongs to the fish?



Vortex wakes



Animals and vortices

