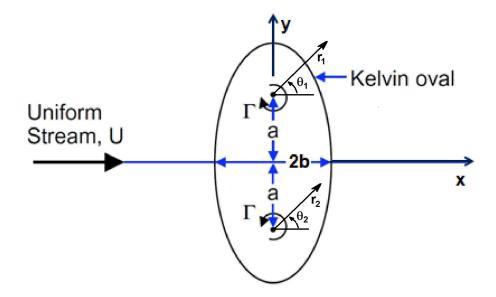
## Problem 120E:

A planar potential flow of an incompressible fluid around a finite body [called a Kelvin oval] is simulated by the superposition of two vortices of opposite rotation and a uniform stream of velocity, U. The vortices have the same magnitude of circulation,  $\Gamma$ , and are located a distance 2a apart: Find the axial length, L,



of the body in terms of a, U and L.