

2.20 Marine Hydrodynamics Homework #4(a)
Due: October 14, 2009

Question 1:

Solve from the supplemental problems: Ia1, Ia2, Ia4, Ia6

Question 2:

Calculate the magnitude of the vorticity of the two-dimensional flow field described in polar coordinates by the equations $v_\theta = \Omega r$, $v_r = 0$, in which Ω is a constant. Sketch the flow streamlines using arrows to indicate the direction of the flow.