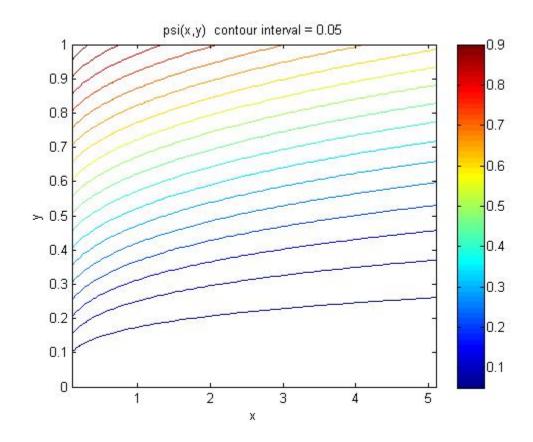
MAE571, Fall 2014, HW4 reference solutions

(a) See Fig. 8.8 in the textbook.

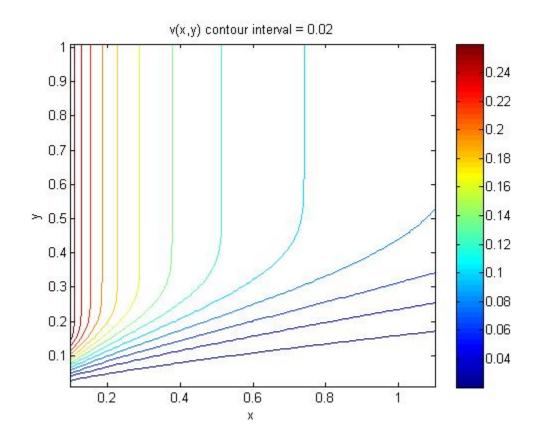
We use the setting of v = 0.01 and U = 1 for Part (b)-(e)

(b)

Contour plot of streamfunction psi



Contour plot of v-velocity



Red line is boundary layer thickness; Black lines are the profiles of u(y) at x = 1, 3, and 5.

