Math 705: Problem Set 4

Due Thursday October 15, 2015

1. Fill in the steps to obtain the result Acheson (5.30) for the speed of the von Kármán vortex street:

\[ V = \frac{\Gamma}{2a}\tanh\left(\frac{\pi b}{a}\right) \]  

(5.30)

Note that you will need to read the text for the definitions, background etc., but I reproduced the final equation because we have different versions of the text (please check).