Physics 410
Assignment #7: Due Monday, November 18, 2013

1) Find the electric potential inside a rectangular, two conductor, waveguide with the cross section shown below. Assume that the inner conductor is at a potential of 18 V and the outer one is grounded. In addition, find the capacitance. Do all calculations for aspect ratio $a/b = 3/2$. Attach a printout of your code, a discussion of your method and assumptions, and a discussion of your results, including an analysis of error. Provide data and graphs as needed.