Math 40750 Fall 2013

Assignment 12, due Thursday, December 5:

§5.1 #5,7,13,16,19
§5.2 (p. 308) #6,7,8,15,17

Use a computer to graph the Gauss-Weierstrass kernel with $K = 1$ for $t = 10,\ t = 1,\ t = .1,\ t = .01,\ t = .001,\ t = .0001,\ t = .00001, t = .000001,\ t = .0000001$. Make sure that your graphs are reasonable. Describe the behavior as $t \to 0$.