

CAAM 499 HW 1. DUE BY 11AM THURSDAY 8/31

Textbook exercises in chapter 1:

Exercise 1 (Hint: Use integration by parts)

Exercise 2 (Hint: The answer will involve the dirac delta distribution)

Exercise 6 (Hint: Linearity is easy, but you must show that the integral is a well-defined finite number.)

Exercise 7 (Hint: What happens when you look at $\langle g_a, \phi \rangle - \langle g_b, \phi \rangle$?)

Exercise 9 (don't worry about the second part of the question)

Exercise 11

Bonus: Exercise 14