

Group _____ Scribe _____

Other group members _____

Group Quiz for Section 4.1

Consider the inner product on $C([0, 1])$ defined by

$$\langle f, g \rangle = \int_0^1 f(x)g(x)dx.$$

For what value of a is the function $f(x) = x - a$ orthogonal to the constant function $g(x) = 1$?