## Attendance Quiz for Lecture 7

<b>NAME:</b> (print!)	Section:
E-MAIL ADDRESS: (print!)	

**1.** Show that the given functions are orthogonal on the given interval.

 $f_1(x) = \sin x$  ,  $f_2(x) = \cos x$  ,  $[0, \pi]$  .

2. Verify by direct integration that the functions are orthogonal with respect to the indicated weight function on the given interval

$$f(x) = x - 3$$
 ,  $g(x) = x^2$  ,  $w(x) = e^{-x}$  ,  $[0, \infty)$  .