

**Attendance Quiz for Lecture 9**

**NAME:** (print!) \_\_\_\_\_ **Section:** \_\_\_\_\_

**E-MAIL ADDRESS:** (print!) \_\_\_\_\_

1. Find the half-range cosine expansion of the following function defined on  $(0, \pi)$

$$f(x) = \begin{cases} 2, & \text{if } 0 \leq x < \pi/2; \\ -1, & \text{if } \pi/2 \leq x < \pi . \end{cases}$$