**Dr. Z.'s Math 421(2), (Fall 2014, RU) REAL Quiz #6**

**NAME:** (print!) _____

**E-MAIL ADDRESS:** (print!) _____

**1.** Find the eigenfunctions and eigenvalues for the following boundary value function.

$$y'' + \lambda^2 y = 0 \quad , \quad y(0) = 0 \quad , \quad y(2\pi) = 0 \quad .$$