

**Dr. Z.'s Math 421(2) REAL Quiz #5**

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

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

**1.** Find the Fourier series of

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