

Score:

**Name:**

**Period (circle one):** 1 2 3 4 5 6

**Team (circle one):** a b c d e f

## SM315 – Quiz #2

1. Find the Fourier cosine series for  $f(x)=\sin(x)$  for  $0 < x < \pi$ .
  - (a) Write out the first three non-zero terms.
  - (b) Sketch the Fourier series for an infinite number of terms for  $-2\pi < x < 2\pi$ .