

Attendance Quiz 22

Name: _____ Date: _____

1. A function $f(x) = \begin{cases} 1 & \text{if } -\pi \leq x < 0 \\ -1 & \text{if } 0 \leq x < \pi \end{cases}$ is given on the interval $[-\pi, \pi]$ and f is periodic with period 2π . Find the Fourier coefficients of f . Find the Fourier series of f . For what values of x is $f(x)$ equal to its Fourier series?