

Math 513-132 Quiz 2222 (A)

Name:.....Sec#:.....ID#:.....Ser#:.....

Q.1: Find the complex Fourier series of $f(t) = \begin{cases} 0 & -\frac{\pi}{2} < t < 0 \\ 1 & 0 < t < \frac{\pi}{2} \end{cases}$.

Q.2: Write in cosine and sine phase angle form

$$f(t) = \frac{3}{4} + \frac{1}{\pi} \sum_{m=1}^{\infty} \frac{(-1)^m}{2m-1} \cos \left[\frac{(2m-1)\pi x}{L} \right]$$