

③ Find the first FOUR non-zero terms of the Fourier series expansion of the function $f(x) = \left(1 - \frac{x^2}{\pi^2}\right)$ per on the interval $(-\pi, \pi)$. Also make a graph of $f(x)$ also w/ the TWO Fourier series expansion. Make sure to show at least THREE periods of $f(x)$.