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Tu: (Miselmum more: 25).

This question will investigate the patterns in a sequence of sine functions using the identities in trigonometry and determine the sum of trigonometric ratios with large engles.

Consider the sequence of sine functions (f_n) where $f_n(x) = \sin(2^{n-1} \cdot x)$ for $n \in \mathbb{Z}^n$ and $x \in \mathbb{R}$.

(iii) Find an expression of
$$f_{\nu}(x)$$
 to seems of $f_{\nu}(x)$ and $f_{\nu}(x)$

(b) Find an expression of
$$f_{\nu}(x)$$
 in terms of $f_{\nu}(x)$ and $f_{\nu}(x)$. (2)

(c) Hence show that
$$f_n(x) = 2(1 - 2(f_{n-1}(x))^2)f_{n-1}(x)$$
. (3)

(at) Prove by induction that as
$$i\left(\frac{J^{\infty}u}{z}\right) = -\frac{1}{z}$$
 for all $u \in \mathbb{Z}^{n}$. (61)

(a) Hence show that the sequence $f_1\left(\frac{x}{x}\right)$, $f_2\left(\frac{x}{x}\right)$, $f_3\left(\frac{x}{x}\right)$, ... is geometric by identifying

If). Determine if the geometric series
$$S = \sum_{i=1}^{\infty} f_{ij}\left(\frac{\pi}{2}\right)$$
 is convergent. (2)

$$\min\left(\frac{4\pi}{3}\right) + \min\left(\frac{2\pi}{3}\right) + \min\left(\frac{4\pi}{3}\right) + \min\left(\frac{4\pi}{3}\right) + \cdots + \min\left(\frac{4456\pi}{3}\right).$$

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