Answer of questions in the answer bookiet provided. Please start each question on a new page. Full marks are not necessar is awarded for a correct answer with no working. Answers must be supported by working and/or explanations. Solutions found from a graphic display calculator should be supported by suitable working. For example, if graphs are used to find a solution, you should shot on these as part of your answer. Where an answer is incorrect, some marks may be given for a correct method, provided this is shown by written working. You are therefore advised to show all working.

(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 $f_1\left(\frac{2t}{t}\right)$, $f_2\left(\frac{2t}{t}\right)$, $f_3\left(\frac{2t}{t}\right)$,... is geometric by identifying

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