

How to find the value of: α in the following equation

$$f(\alpha) = 0.48 - \frac{\alpha}{\pi} + \frac{\sin 2\alpha}{2\pi} = \text{zero}$$

Ans.: Make sure that the Calculator version no. is fx-570ES or the above versions

Steps:

1. Make rad mode.

2. Write the equation: $0.48 - \frac{x}{\pi} + \frac{\sin 2x}{2\pi}$

3. =

4. shift

5. calc

6. =

7. 1.53

So, $\alpha = 1.53 \text{ rad} = 88.22 \text{ deg}$