Started on	Wednesday, 10 May 2017, 3:00 PM
State	Finished
Completed on	Wednesday, 10 May 2017, 3:56 PM
Time taken	55 mins 16 secs
Grade	**100.00** out of 100.00

Question 1

Correct

Mark 100.00 out of 100.00

Quiz 12a

Given the compact trigonometric form is

$$f(t) = a_v + \sum_{n=1}^{\infty} A_n \cos(n\omega_0 t - \theta_n)$$

The Fourier coefficients for a function f(t) were found to be:

$$a_v = 0 \qquad a_n = \frac{24}{n^2\pi^2} \qquad b_n = \frac{12}{n\pi}$$

Find the following coefficients in the compact trigonometric form for this function.

A_1 = 4.51 ✓

at angle θ_1 = 57.47 ✓ ° (Degrees)

A_2 = 2.003 ✓

at angle θ_2 = 72.36 ✓ ° (Degrees)

A_3 = 1.298 ✓

at angle θ_3 = 77.99 ✓ ° (Degrees)

Numeric Answer

A_1 = 4.528 at angle 57.52°

A_2 = 2.004 at angle 72.34°

A_3 = 1.3016 at angle 78.02°

Correct

Marks for this submission: 100.00/100.00.