Started on	Wednesday, 10 May 2017, 2:46 PM
State	Finished
Completed on	Wednesday, 10 May 2017, 4:00 PM
Time taken	1 hour 13 mins
Overdue	13 mins 22 secs
Grade	**100.00** out of 100.00

Question 1

Correct

Mark 100.00 out of 100.00

Quiz 12c

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:

$$a_v = 0 \qquad a_n = \frac{12}{n^2\pi^2} \qquad b_n = \frac{6}{n\pi}$$

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

A_1 = 2.2655 ✓ at angle θ_1 = 57.5 ✓ ° (Degrees)

A_2 = 1.00 ✓ at angle θ_2 = 72.34 ✓ ° (Degrees)

A_3 = .65107 ✓ at angle θ_3 = 78.019 ✓ ° (Degrees)

Numeric Answer

A_1 = 2.2640 at angle 57.52°

A_2 = 1.0021 at angle 72.34°

A_3 = 0.6508 at angle 78.02°

Correct

Marks for this submission: 100.00/100.00.