Started on	Wednesday, 8 May 2019, 11:55 AM
State	Finished
Completed on	Wednesday, 8 May 2019, 11:57 AM
Time taken	2 mins 11 secs
Grade	**100.00** out of 100.00

Question 1

Correct

Mark 100.00 out of 100.00

Quiz 12d

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:

$$a_v = \frac{2V_m}{\pi} \quad a_n = \frac{4V_m}{\pi(1-4n^2)}$$ $b_n = 0$ $V_m = 10$ Volts

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

a_v = 6.366 ✓ Volts

A_1 = -4.244 ✓ at angle θ_1 = 0 ✓ ° (Degrees) Volts

A_2 = -0.8488 ✓ at angle θ_2 = 0 ✓ ° (Degrees) Volts

A_3 = -0.3637 ✓ at angle θ_3 = 0 ✓ ° (Degrees) Volts

Correct

Marks for this submission: 100.00/100.00.

◄ Quiz 11 - Chapter 16

Jump to...

Exam 3 (Final) - Bode Diagram, Chapters 14, 15, 16, and Bode Diagrams ►