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Started on Wednesday, 3 May 2017, 11:04 AM

State Finished

Completed on Wednesday, 3 May 2017, 11:42 AM

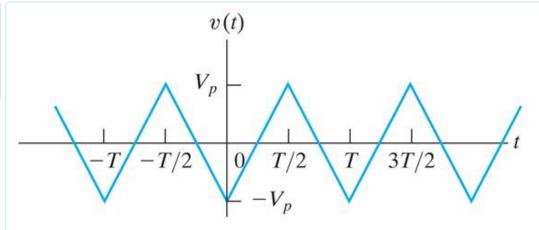
Time taken 38 mins 28 secs

Grade 100.00 out of 100.00

Question 1

Correct

Mark 100.00 out of 100.00



Quiz 11b

Given: The Fourier coefficients for this waveform are

$$a_n = -8V_p/(n\pi)^2$$
 Volts for n odd $b_n = 0$ $V_p = 50$ V $T = 5$ ms (milli sec)

Write the following terms of this waveform's Fourier series.

a) What is the average value a_v?

$$a_v = \boxed{0}$$
 Volts

Answer the next two questions in the order of magnitude, identify cosine or sine, and the frequency of the sinusoid in radians/sec.

b) Write the expression for n = 1.

$$v_1(t) = -40.53$$
 Cosine \$ (1256.64) \(\sqrt{t} \) Volts

c) Write the expression for n = 5.

$$v_5(t) = \begin{bmatrix} -1.62 \\ \checkmark \end{bmatrix}$$
 Cosine \diamondsuit (6283.19 \checkmark t) Volts

Correct

Marks for this submission: 100.00/100.00.