## Quiz #4

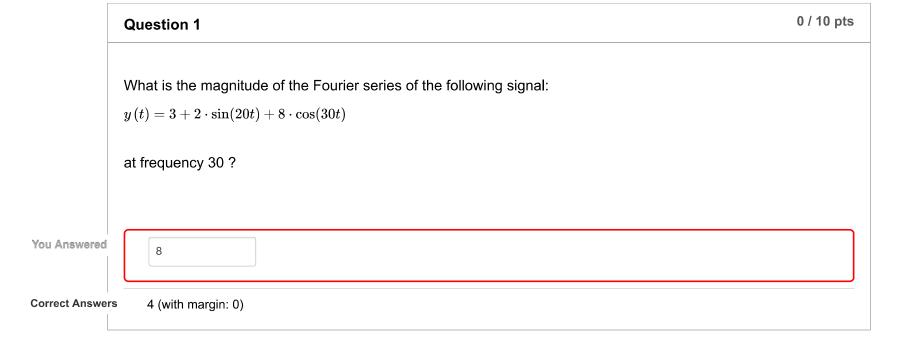
<b>Due</b> Mar 31 at 9:55am	Points 100	Questions 9	Available Mar 31 at 9:35am - Mar 31 at 9:57am 22 minutes	Time Limit 14 Minutes

This quiz was locked Mar 31 at 9:57am.

## **Attempt History**

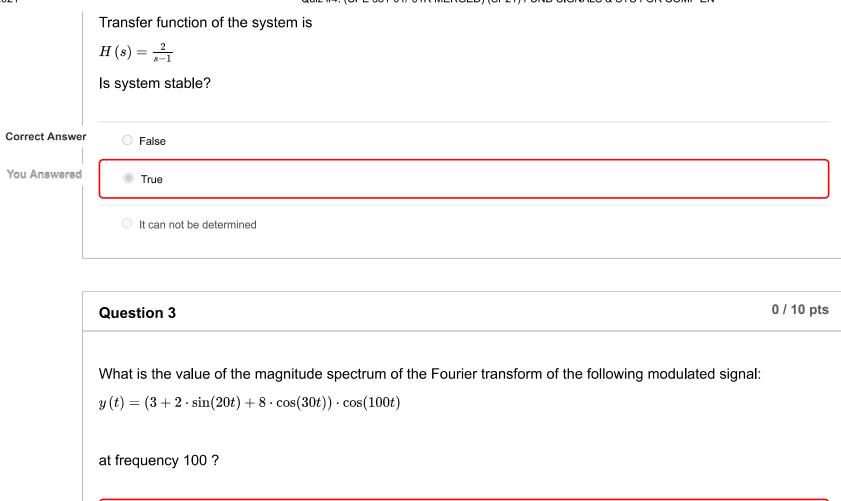
	Attempt	Time	Score
LATEST	Attempt 1	14 minutes	0 out of 100

Score for this quiz: **0** out of 100 Submitted Mar 31 at 9:50am This attempt took 14 minutes.



**Question 2** 

0 / 10 pts



You Answered

8

**Correct Answers** 

1.5 (with margin: 0)

Question 4 0 / 10 pts

What is the value of the magnitude spectrum of the Fourier transform of the following signal:

 $y(t) = (3 + 2 \cdot \sin(20t) + 8 \cdot \cos(30t)) \cdot \cos(100t)$ 

at frequency 90?

You Answered

5

**Correct Answers** 

0 (with margin: 0)

Question 5 0 / 10 pts

What is the value of the magnitude spectrum of the Fourier transform of the following signal:

$$y(t) = (3 + 2 \cdot \sin(20t) + 8 \cdot \cos(30t)) \cdot \cos(100t)$$

at frequency 80?

You Answered

0.548

**Correct Answers** 

0.5 (with margin: 0)

Question 6 0 / 10 pts

What is the value of the phase of the Fourier transform of the following signal:

$$y(t) = (3 + 2 \cdot \sin(20t) + 8 \cdot \cos(30t)) \cdot \cos(100t)$$

at frequency -70?

You Answered	70	
Correct Answer	o (with margin: 0)	
		0.1.40
	Question 7	0 / 10 pts
	A band pass filter has cutoff frequencies 10 Hz and 30 Hz.	
	What is the magnitude of the transfer function at frequency 18 Hz?	
You Answered	2	
Correct Answer	1 (with margin: 0)	
L		
	Our attan 0	0 / 10 pts
_	Question 8	- 10 pto
	A band stop filter has cutoff frequencies 10 Hz and 30 Hz.	
	What is the magnitude of the transfer function at frequency 9 Hz?	
You Answered	0.901	
Correct Answer	1 (with margin: 0)	

Unanswered	Question 9	0 / 20 pts
	The following signal	
	$y\left(t\right)=2+4\cdot\sin(20t)+6\cdot\cos(30t)$	
	is sampled at frequency 200.  What is the value of the magnitude of the Fourier transform of the sampled signal at frequency 220?	
You Answered		
Correct Answer	s 2 (with margin: 0)	

Quiz Score: 0 out of 100