Started on	Thursday, 5 August 2021, 12:20 PM
State	Finished
Completed on	Thursday, 5 August 2021, 12:31 PM
Time taken	11 mins 14 secs
Grade	**8.00** out of 10.00 (**80%**)

## Question 1
Partially correct

Mark 8.00 out of 10.00

Answer the questions below, (**Insert the numerical value only, do not use <,>,+, *, or /**)

The Relative error for your answer should be less than 0.01, which means if the answer was 50, then the error should not exceed 50*0.01= ±0.5!

if the answer was 230, then the error should not exceed 230*0.01= ±2.3!

if the answer was 2.31467*10^-3, then you should enter this value: 0.00231467, not this 0.0023 !!!!
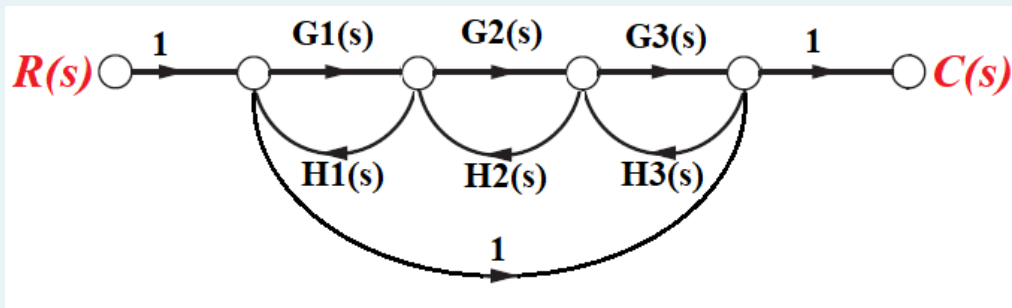
If G1(S)=G2(S)=G3(S)=S, H1(S)= -3, H2(S)= -6, H3(s)= 12.

Find the transfer function for the following system shown using Mason's Rule. Follow this Form:

$$\frac{C(S)}{R(S)} = \frac{(K1)S^3+(K2)S^2+(K3)S+(K4)}{(K5)S^3+(K6)S^2+(K7)S+(K8)}$$

where K1, K2, K3, K4,K5, K6, K7and K8 are constants, note that the value of **K1 is given in order to have a unique solution**, so, **the value of K1 is 1**. the other constants will be as follow:

the value of K2 is: 0

✔

One possible correct answer is: 0

the value of K3 is: 6

✔

One possible correct answer is: 6

the value of K4 is: 1

✔

One possible correct answer is: 1

the value of K5 is: 0

✔

One possible correct answer is: 0

the value of K6 is: -36

✔

One possible correct answer is: -36

the value of K7 is: -3

✔

One possible correct answer is: -3

the value of K8 is: 1

✖

One possible correct answer is: -215

◄ Quiz #2

D   Jump to...   ⬍

Quiz #4 ►