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Started on	Monday, September 28, 2020, 11:14 PM
State	Finished
Completed on	Monday, September 28, 2020, 11:30 PM
Time taken	16 mins 9 secs
Grade	**7.00** out of 8.00 (**88**%)

Question **1**
Correct
1.00 points out of 1.00

The general construct for adding a sine function to model seasonality is

Select one:
- a. sin(2*pi*t*i/S) where i =1,2,3,.... ✔
- b. sin(t/S)
- c. sin(2*pi*S/S)
- d. sin(2*pi/S)

Your answer is correct.

The correct answer is: sin(2*pi*t*i/S) where i =1,2,3,....

Question **2**
Incorrect
0.00 points out of 1.00

Fitting 7 sine and cosine functions in ARIMA will result in the same analysis as fourier with K=7.

Select one:
- True
- False ✖

The correct answer is 'True'.

Question **3**
Correct
1.00 points out of 1.00

Using the Constr data set, fit 5 sine and cosine functions to the contrcts variable (no AR nor MA terms). What is the coefficient of the 5th cosine variable? Keep answers to a precision of two decimal places.

Answer: 3.04 ✔

The correct answer is: 3.04

Question **4**
Correct
1.00 points out of 1.00

After fitting the model in question 3, there is still a trend in the data.

Select one:
- True ✔
- False

The correct answer is 'True'.

Question 5
Correct
4.00 points out of 4.00

Use the following ARIMA statement to answer the questions:

$ARIMA(3,1,6)(2,0,4)_{12}$

How many seasonal MA terms are there?	4	✔
How many seasonal AR terms are there?	2	✔
How many non-seasonal MA terms are there?	6	✔
Are there any seasonal differences?	No	✔

Your answer is correct.

The correct answer is:

- How many seasonal MA terms are there? → 4
- How many seasonal AR terms are there? → 2
- How many non-seasonal MA terms are there? → 6
- Are there any seasonal differences? → No

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