

Q1

Q2

```
hpds = 15

time = 1x80
    120      165      210      255      300      345 ...
norm_time = 80x1
    0.3333
    0.4583
    0.5833
    0.7083
    0.8333
    0.9583
    1.0833
    1.2083
    1.3333
    1.4583
    :
    :

Parameters:
-----
Mesor = 5.68987
Amplitude = 0.366518
Acrophase = -6.09421

Zero Amplitude Test
-----
Amplitude      0.95 Confidence Limits      P Value
-----
0.37          (0.21 to 0.52)            2.32365e-07
```

The zero amplitude test is less than 0.05 showing the data is significant and that the model is well suited to the data.

```
Parameters:
-----
Mesor = 5.76287
Amplitude = 0.265183
Acrophase = -5.65807

Zero Amplitude Test
-----
Amplitude      0.95 Confidence Limits      P Value
-----
0.27          (0.13 to 0.40)            3.79563e-05
```

The zero amplitude test is less than 0.05 showing the data is significant and that the model is well suited to the data.

```
Parameters:
-----
Mesor = 5.85225
Amplitude = 0.319457
Acrophase = -5.75822

Zero Amplitude Test
-----
Amplitude      0.95 Confidence Limits      P Value
```

```
-----  
0.32 (0.17 to 0.47) 5.49179e-06
```

The zero amplitude test is less than 0.05 showing the data is significant and that the model is well suited to the data.

Parameters:

```
-----  
Mesor = 5.63925  
Amplitude = 0.225227  
Acrophase = -5.63283
```

```
!! Confidence region overlaps the pole. Confidence limits for Amplitude and Acrophase cannot be determined
```

Zero Amplitude Test

```
-----  
Amplitude 0.95 Confidence Limits P Value  
-----  
0.23 (0.00 to 0.00) 0.0818094
```

The p value is greater than 0.05 therefore the model is not significant and is not a good fit for the data.

Parameters:

```
-----  
Mesor = 5.71788  
Amplitude = 0.288059  
Acrophase = -5.78643
```

Zero Amplitude Test

```
-----  
Amplitude 0.95 Confidence Limits P Value  
-----  
0.29 (0.14 to 0.44) 4.37577e-05
```

The zero amplitude test is less than 0.05 showing the data is significant and that the model is well suited to the data.

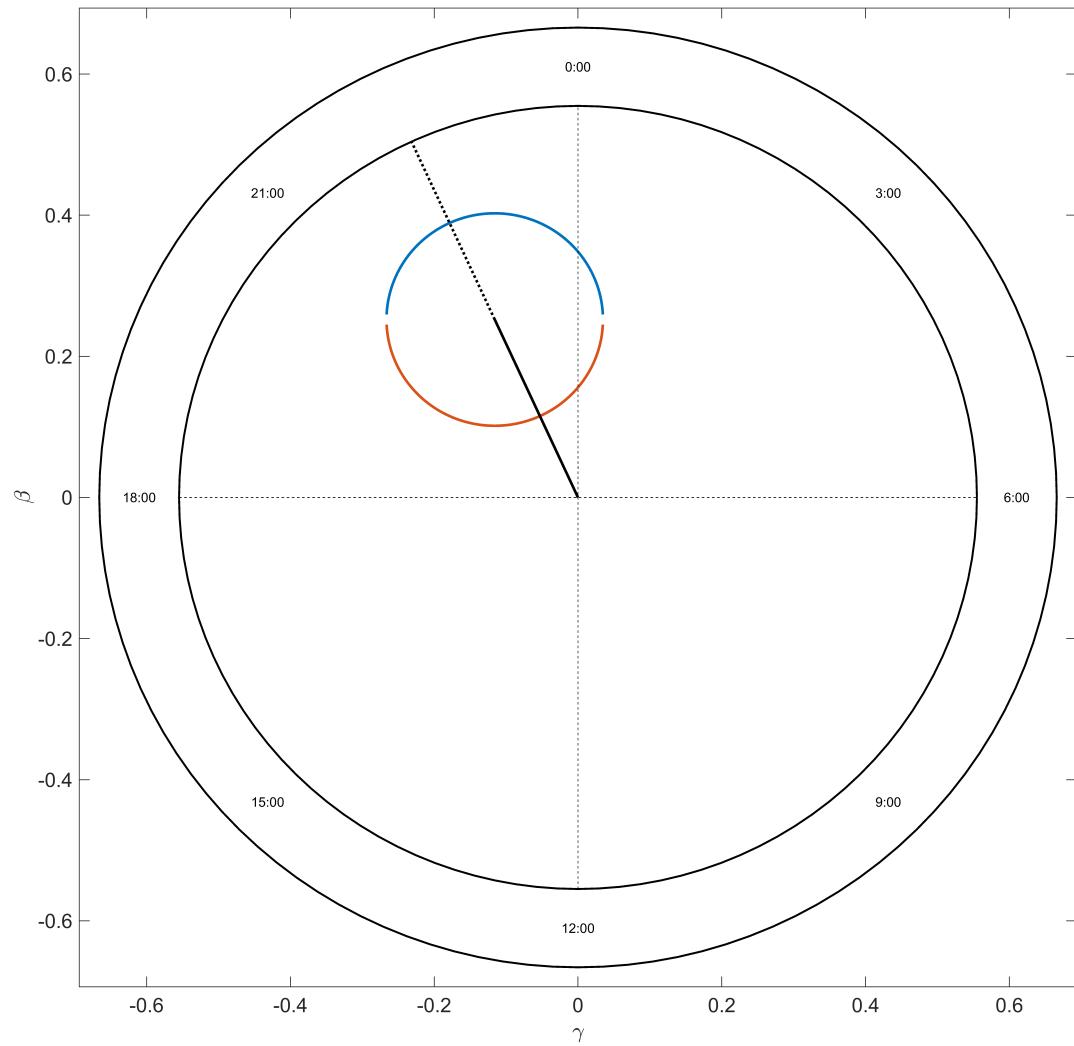
Parameters:

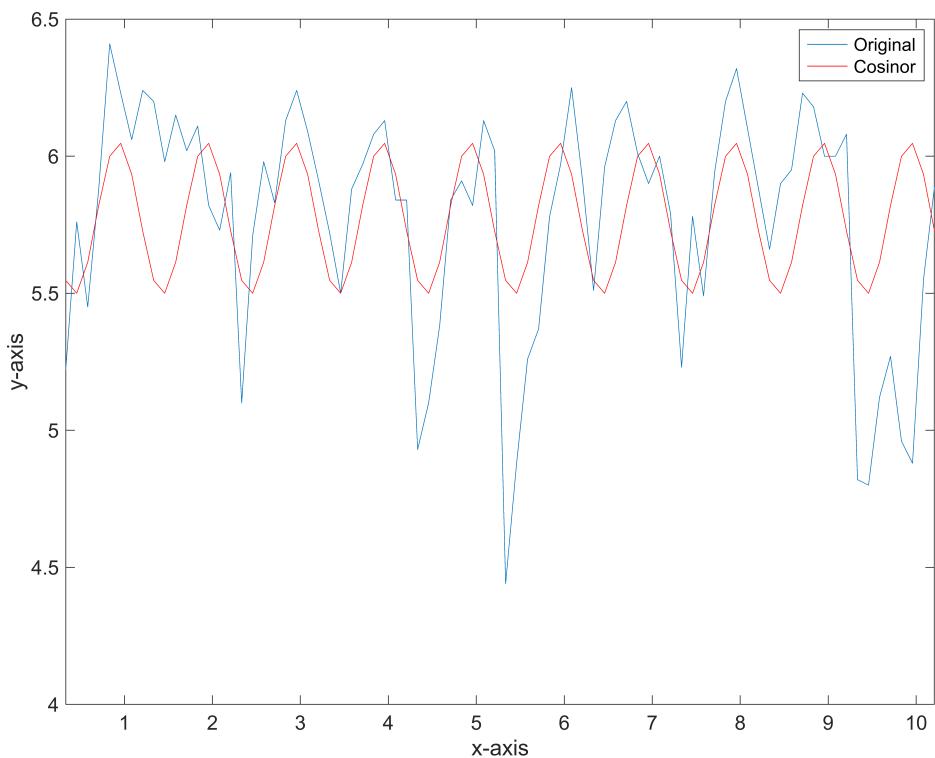
```
-----  
Mesor = 5.77338  
Amplitude = 0.277452  
Acrophase = -5.8526
```

Zero Amplitude Test

```
-----  
Amplitude 0.95 Confidence Limits P Value  
-----  
0.28 (0.13 to 0.43) 6.83177e-05
```

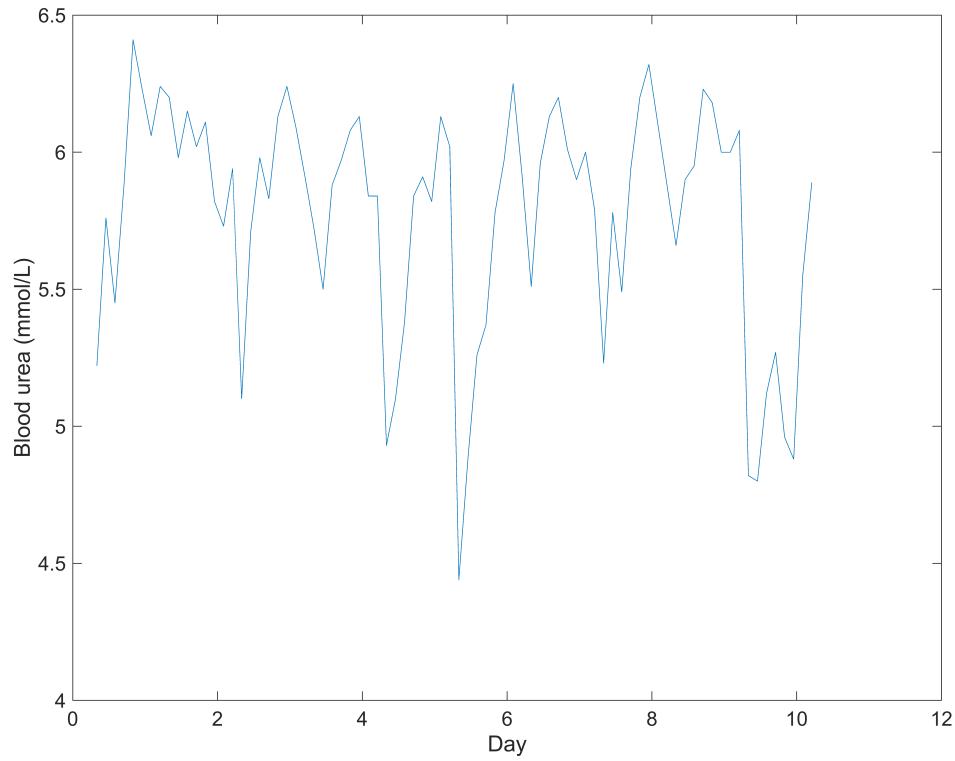
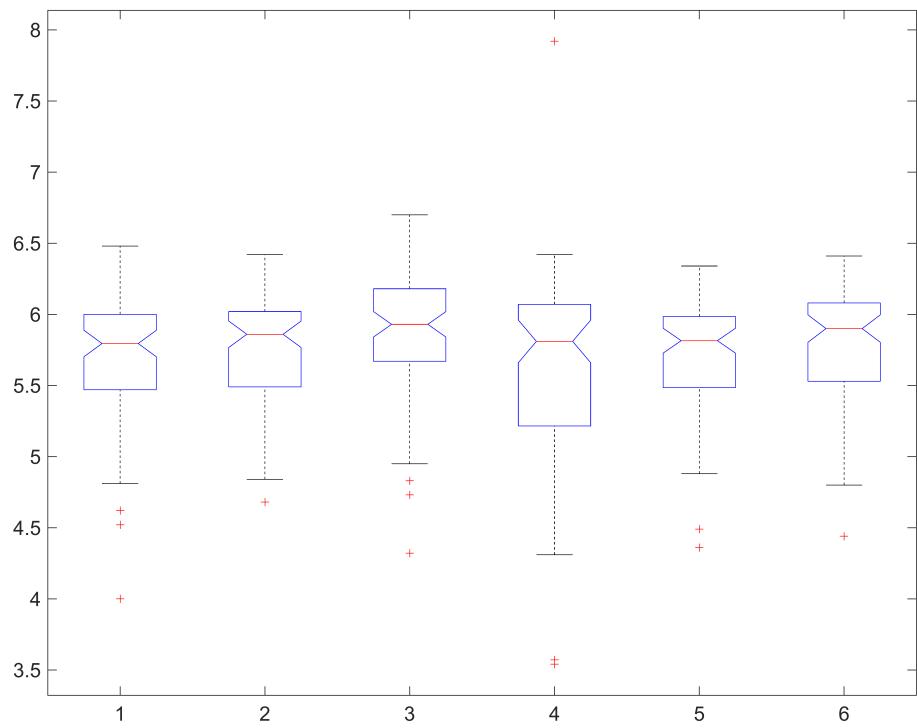
The zero amplitude test is less than 0.05 showing the data is significant and that the model is well suited to the data.

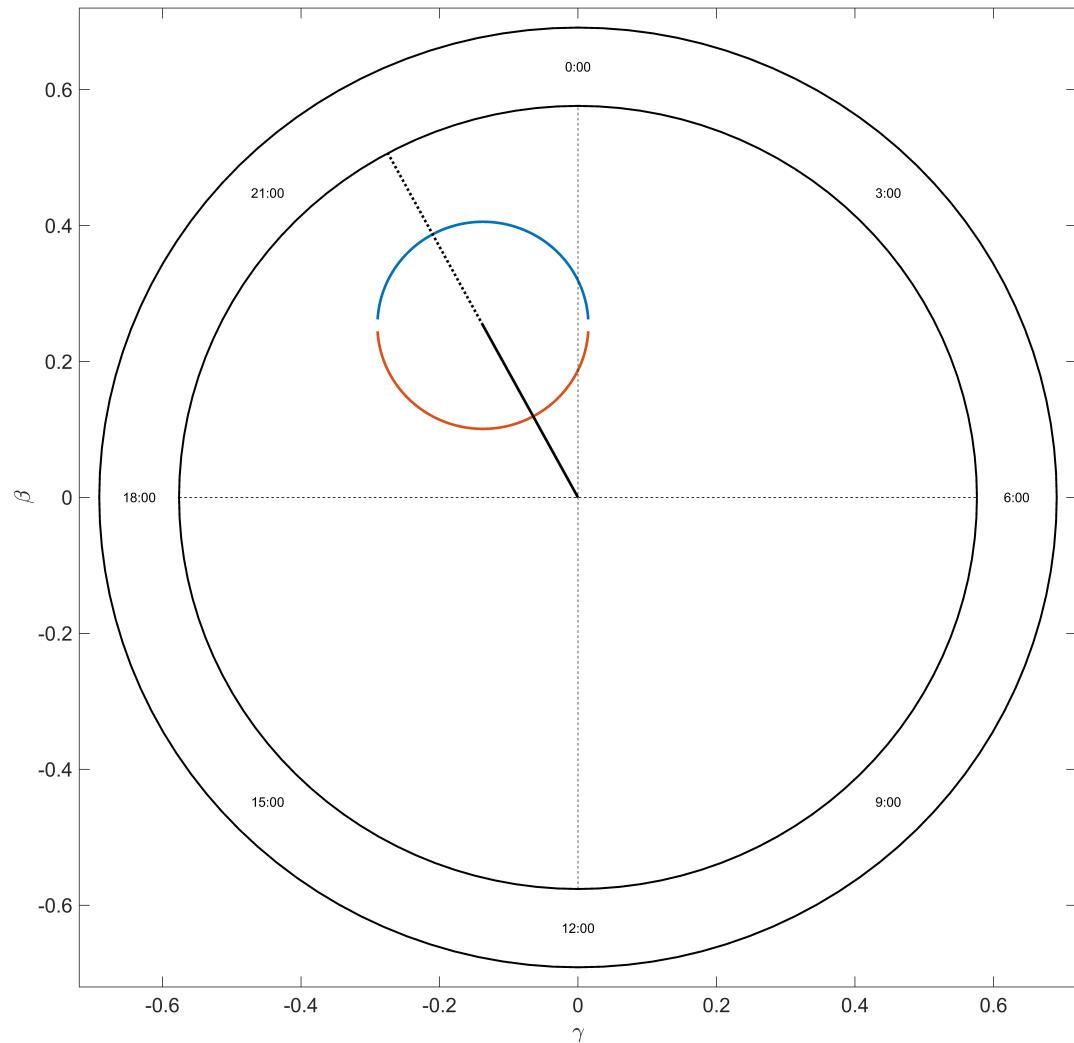


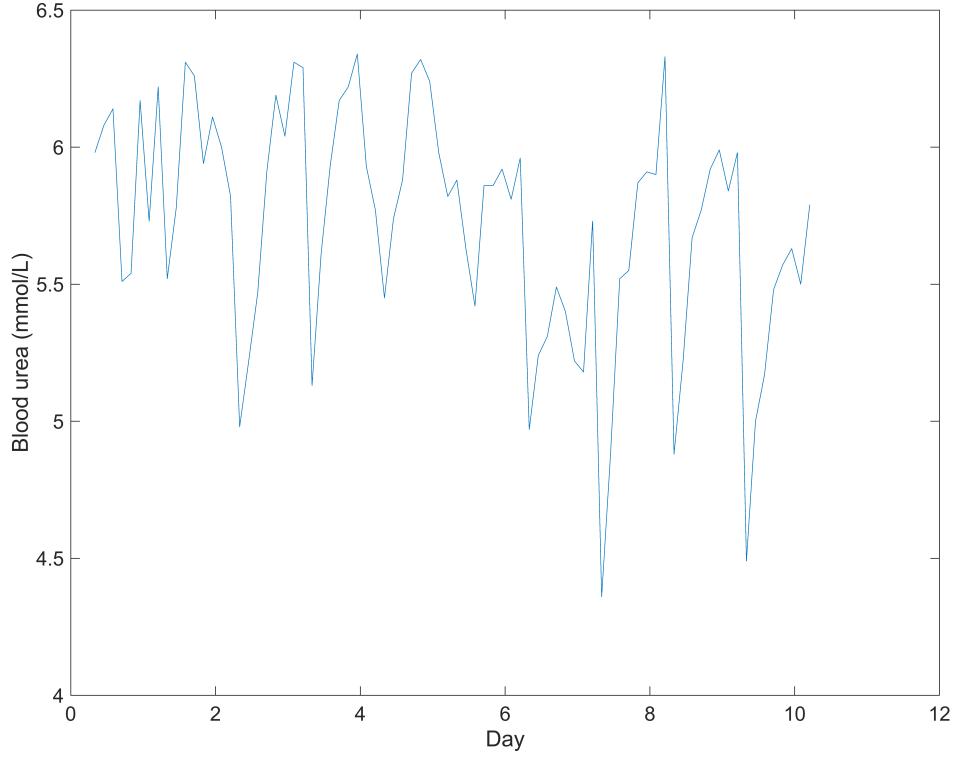
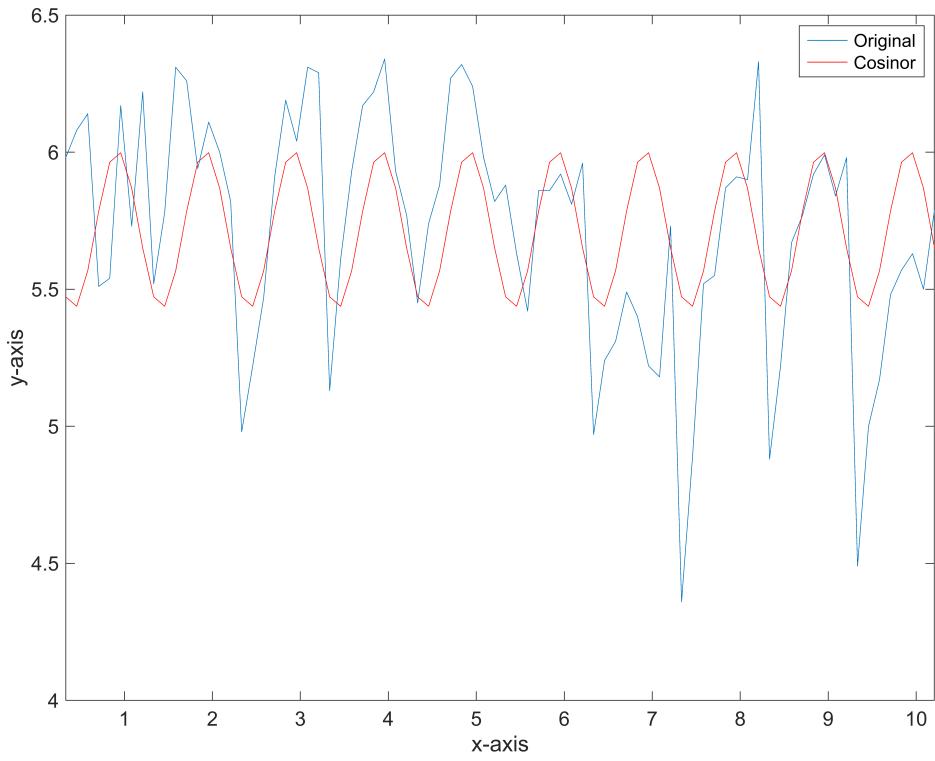


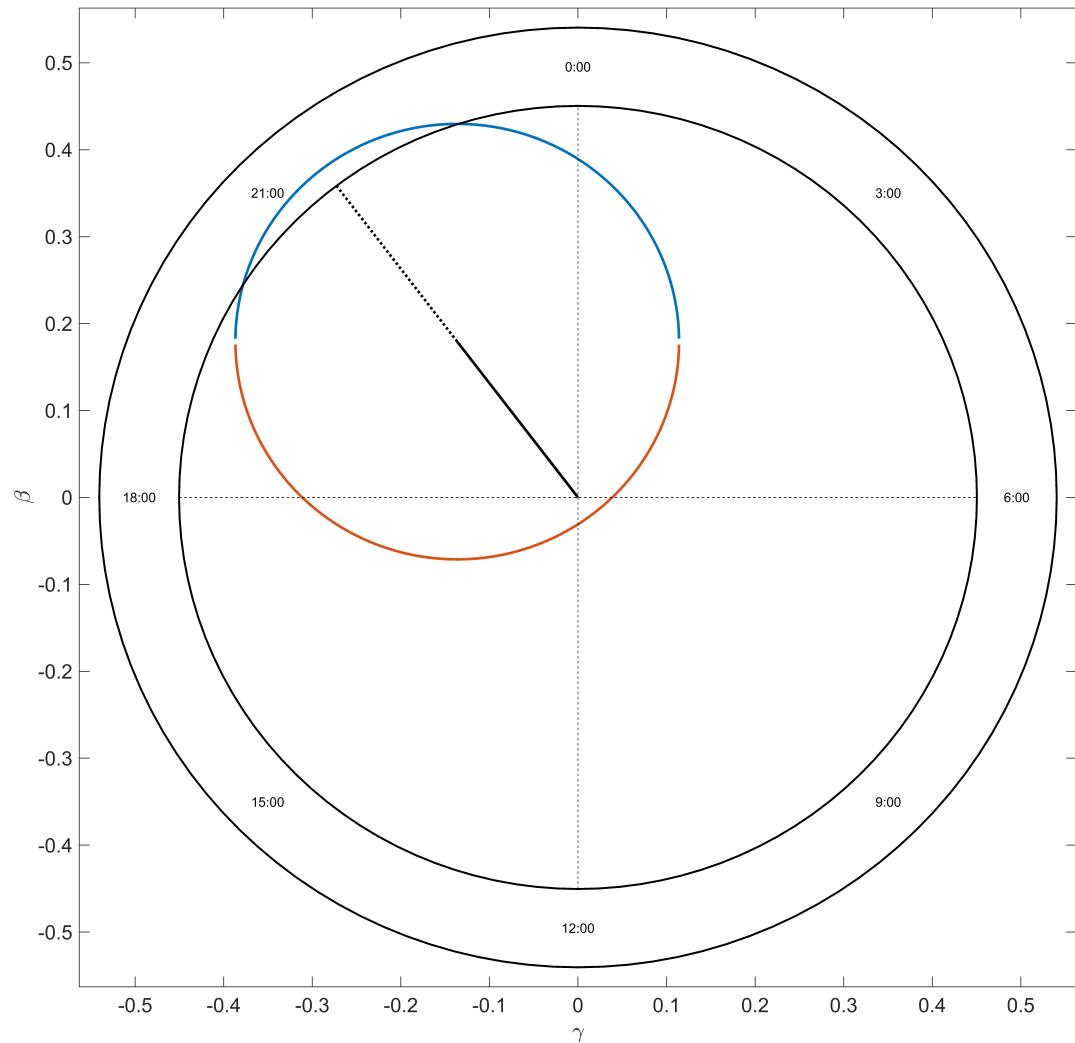
ANOVA Table

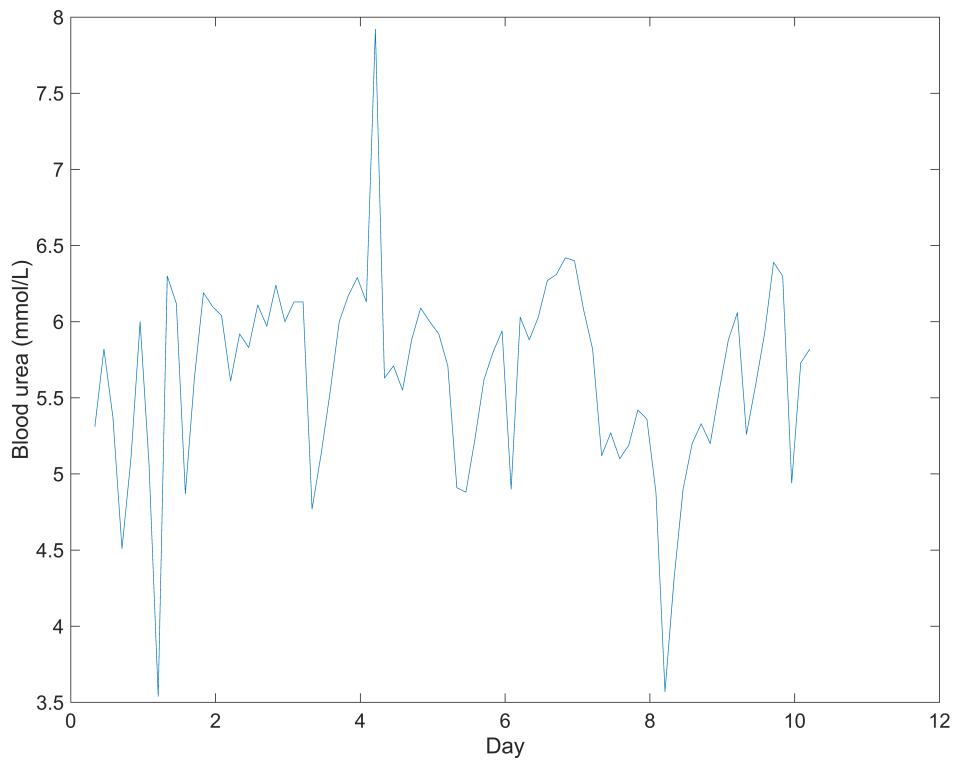
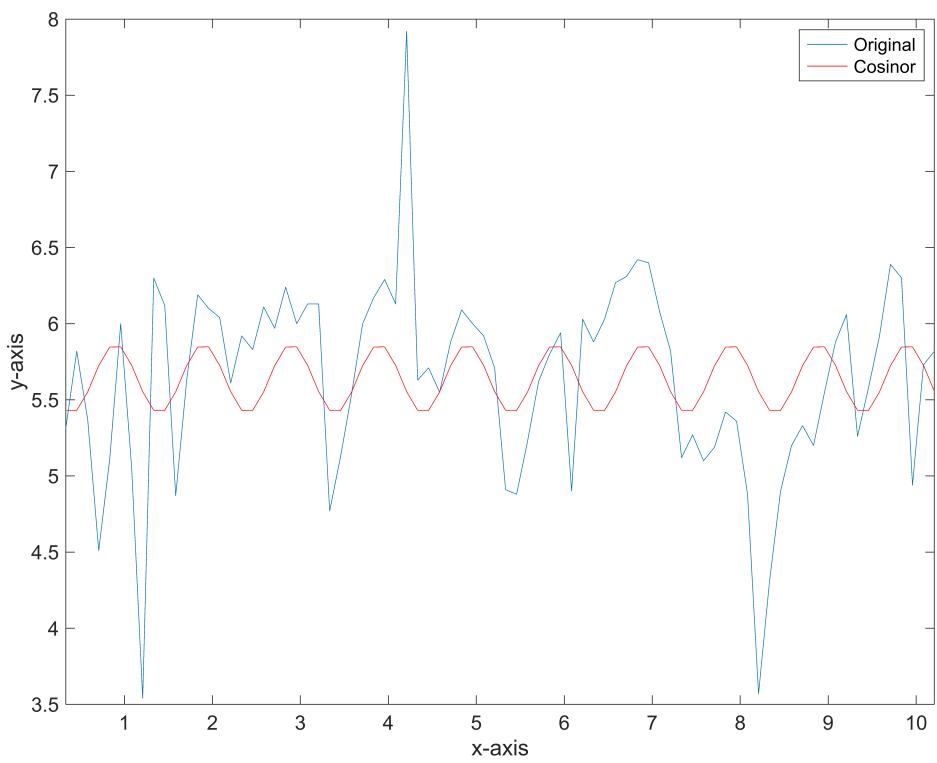
Source	SS	df	MS	F	Prob>F
Columns	2.191	5	0.43818	1.95	0.0853
Error	106.711	474	0.22513		
Total	108.902	479			

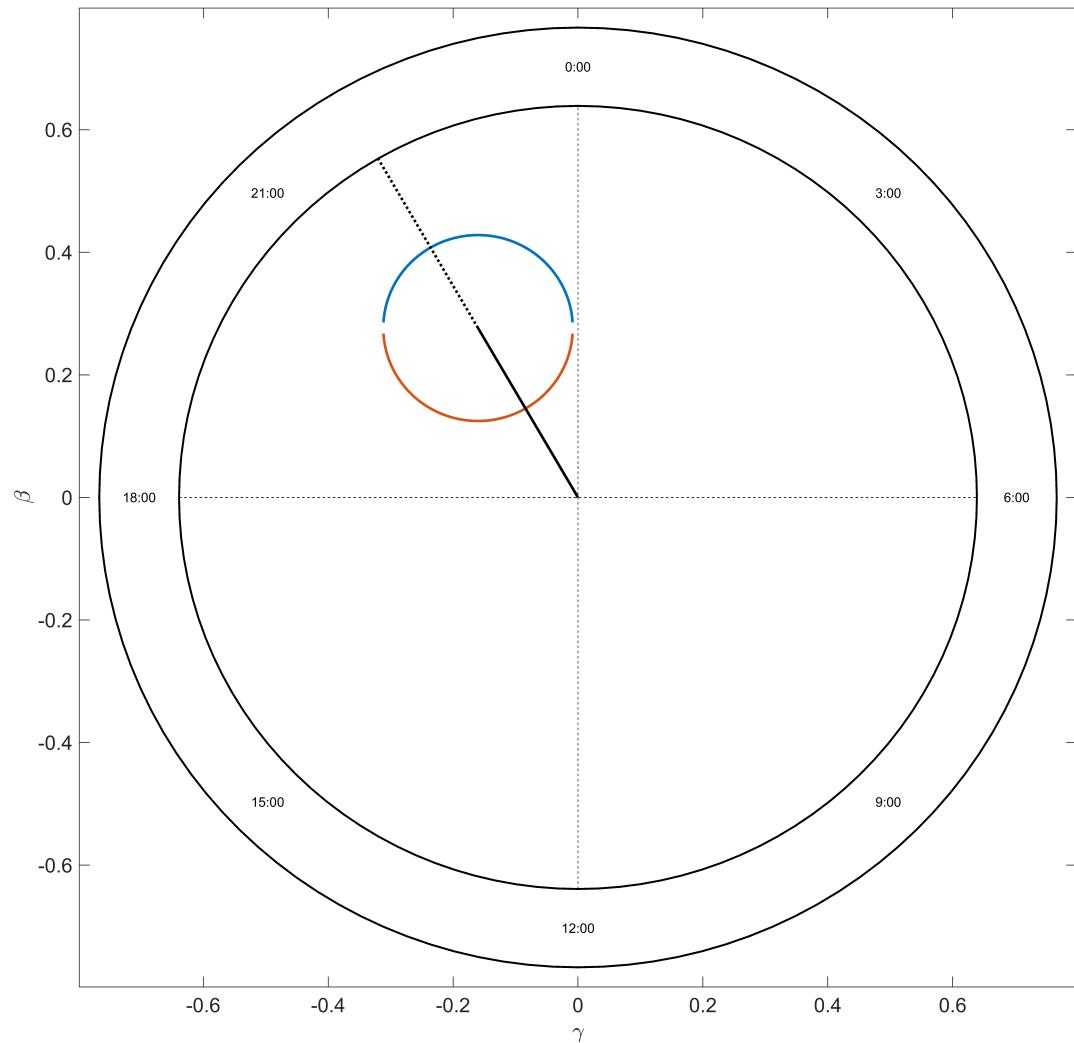


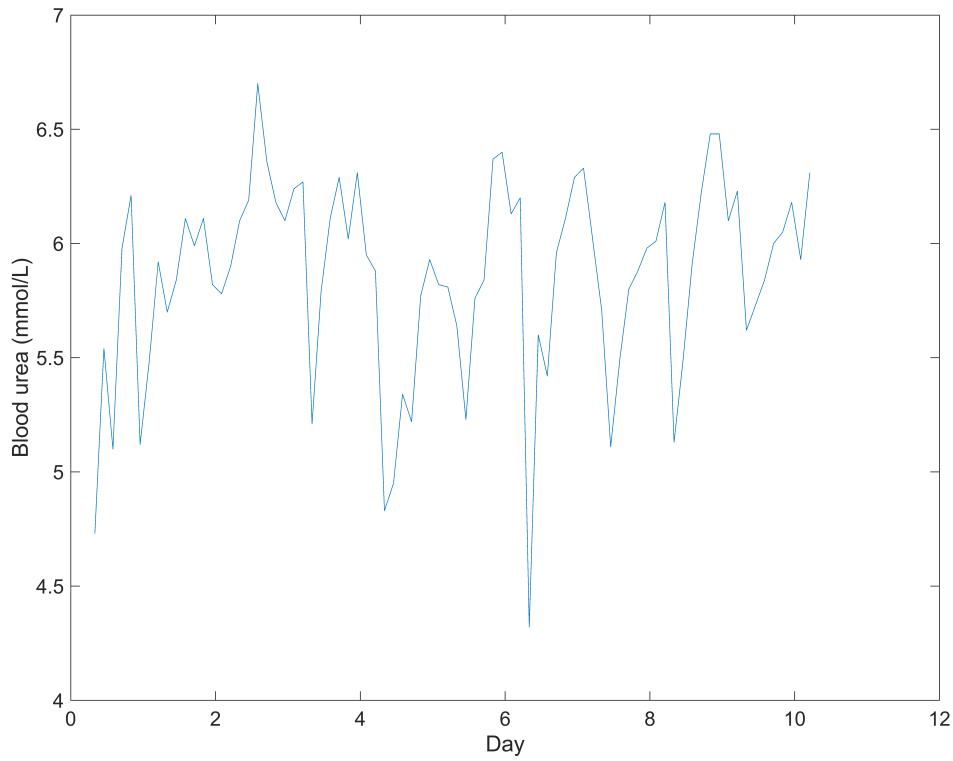
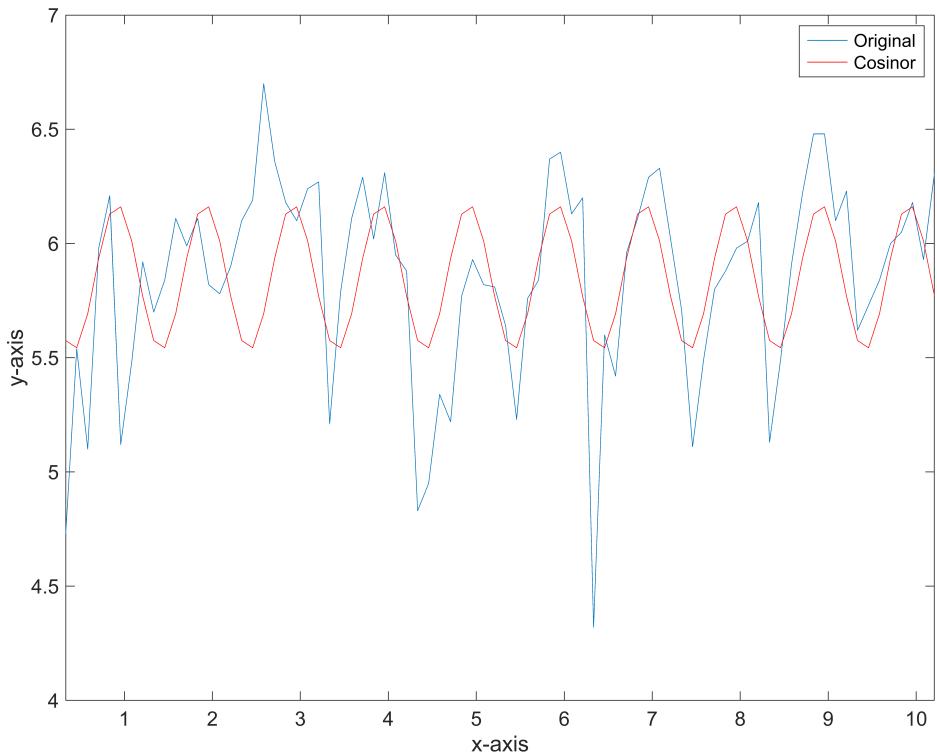


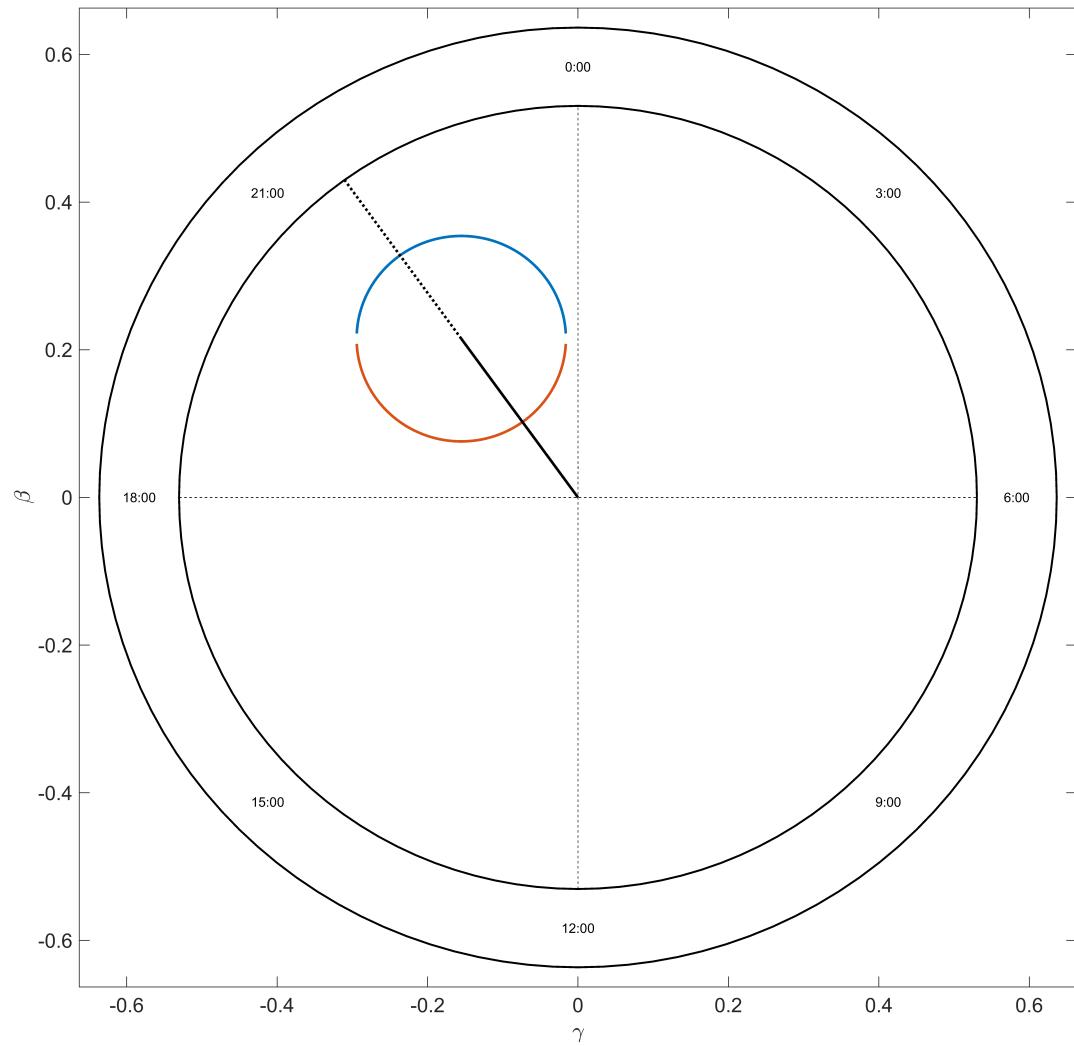


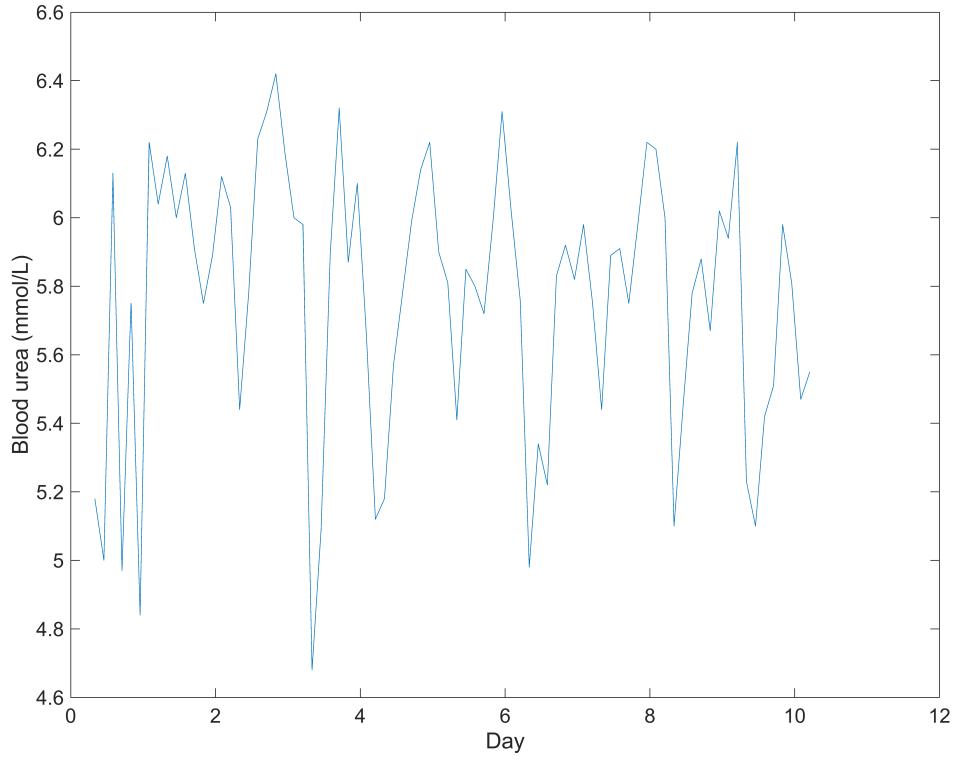
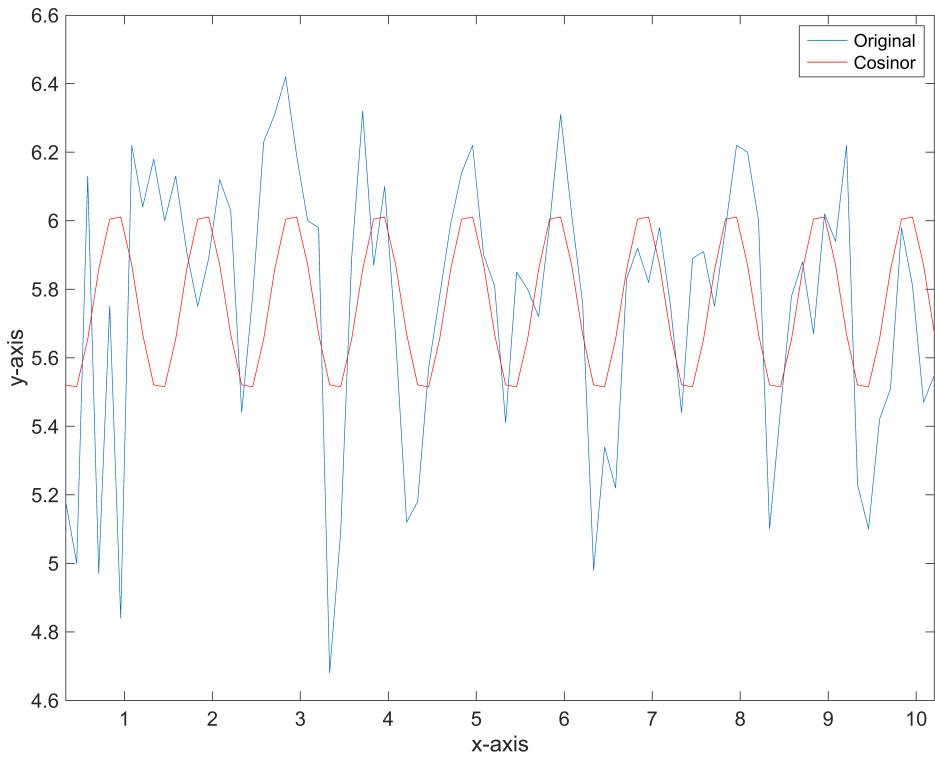


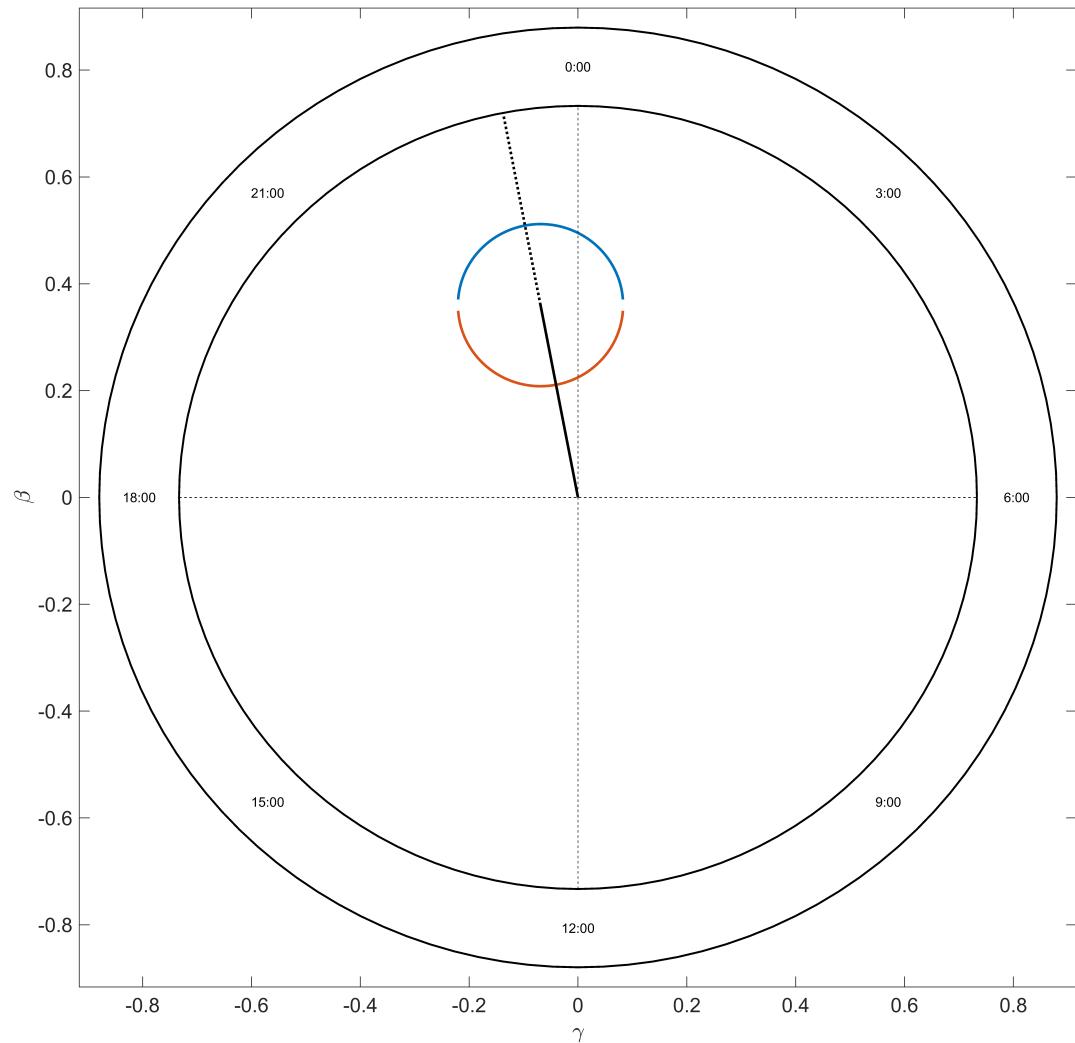


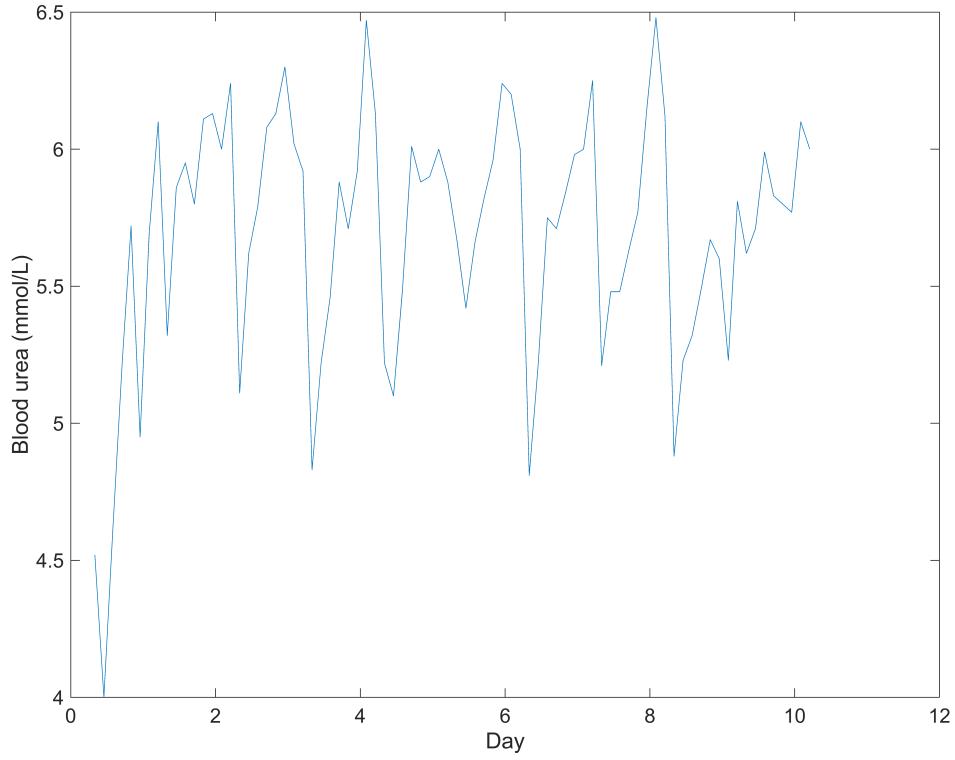
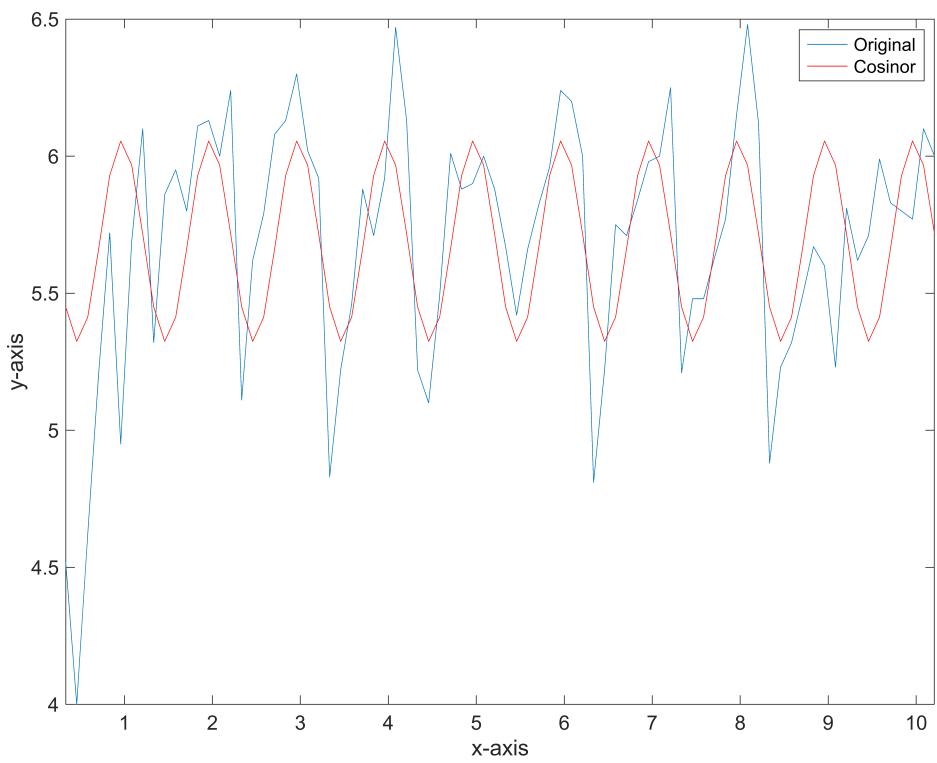












ans = 0.0853