Started on
Thursday, 8 May 2025, 11:00 AM

State
Finished

Completed on
Thursday, 8 May 2025, 11:08 AM

Time taken
8 mins 41 secs

Grade
8.00 out of 10.00 (80%)

Question 1

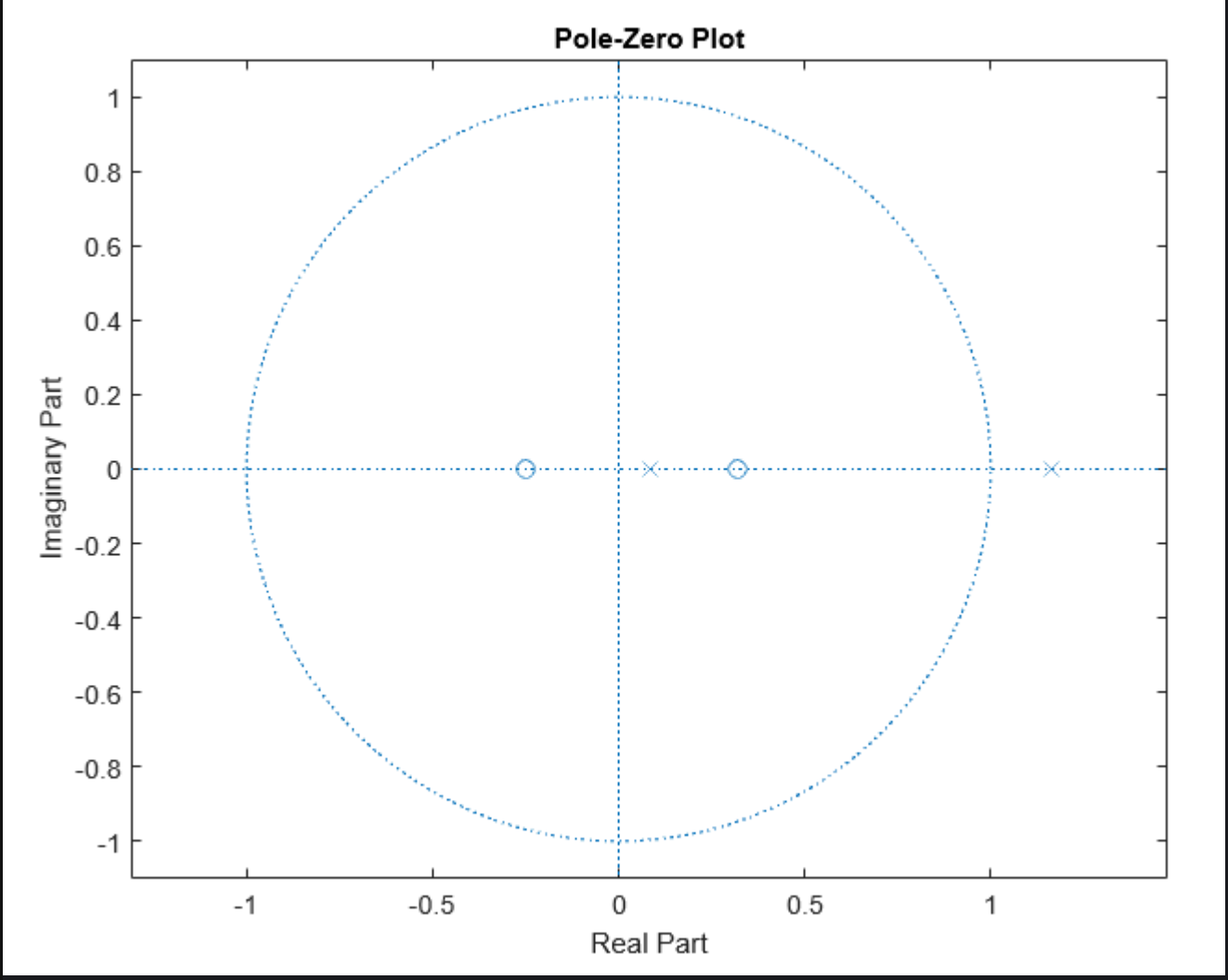
Flag question

Complete

Mark 2.00 out of 2.00

ECTE203_Q3 (copy)

This system is NOT stable.



Select one:

- True
- False

Question 2

Flag question

Complete

Mark 0.00 out of 2.00

ECTE203_Q3

Which option best describes the general format of impulse response?

A = [1 , 0.2 , -.0.5]

B = [1 2.2]

n = 0:10

a.
```
x = (n==1);
y = impz(B,A,x);
```

b.
```
y = impz(B,A,100);
```

c.
```
x = (n>=0);
y = stepz(B,A,x);
```

d.
```
x = (n>=1);
y = filter(B,A,x);
```

Question 3

Flag question

Complete | Mark 2.00 out of 2.00

ECTE203_Q3 (copy)

Which of the following gives the correct formula to compute the length N of the output signal y when two discrete-time signals x and h are convolved using MATLAB's conv(x, h)?

- a. length(x)+length(h)-1
- b. length(x)*length(y)
- c. length(x)*length(h)
- d. length(x)-length(h)-1

Question 4

Flag question

Complete | Mark 2.00 out of 2.00

ECTE203_Q3

Given the length of x_in [A,B] and h[C,D], the range of convolution of x and h (y = x * h) will be _____.

- a. [B,D]
- b. [A, D]
- c. [A+C, B+D]
- d. [A+B, C+D]

Question 5

Flag question

Complete

Mark 2.00 out of 2.00

ECTE203_Q3

A system is stable when _____ .

a. all zeros are in the unit circle

b. at least 1 pole is inside the unit circle

c. Magnitude of all poles are less than 1

d. Magnitude of zeros are above 1

Finish review