SIGNALS AND SYSTEMS (IT204)

ASSIGNMENT 7

Name: Sachin Prasanna

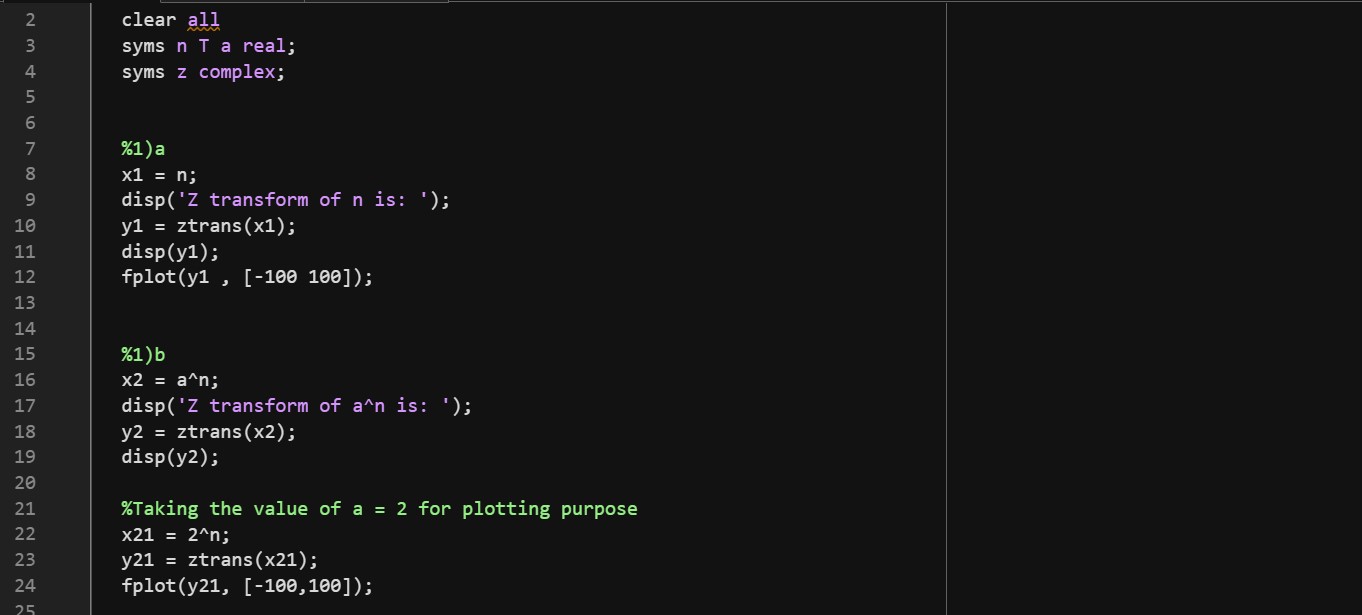
Roll no : 211IT058

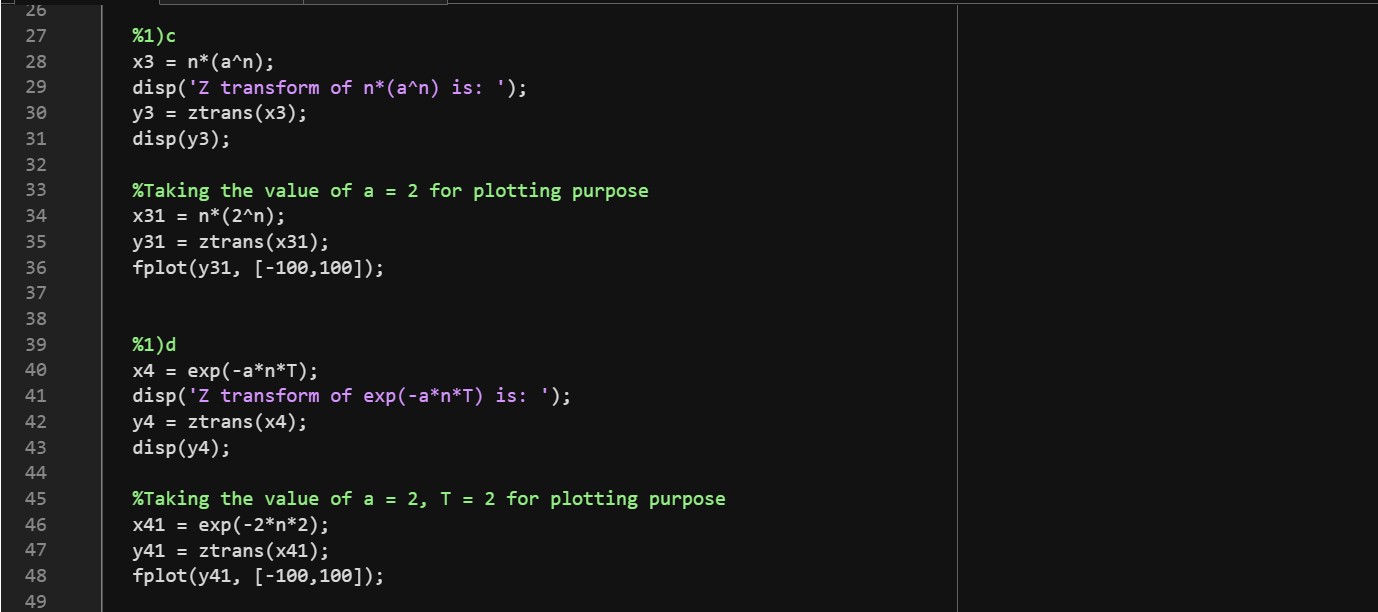
1) Write a MATLAB/ Python program to find one sided z-transform of the following standard causal signals.

a) n b) an c) nan d) e-anT

**ANSWERS**

**CODE**

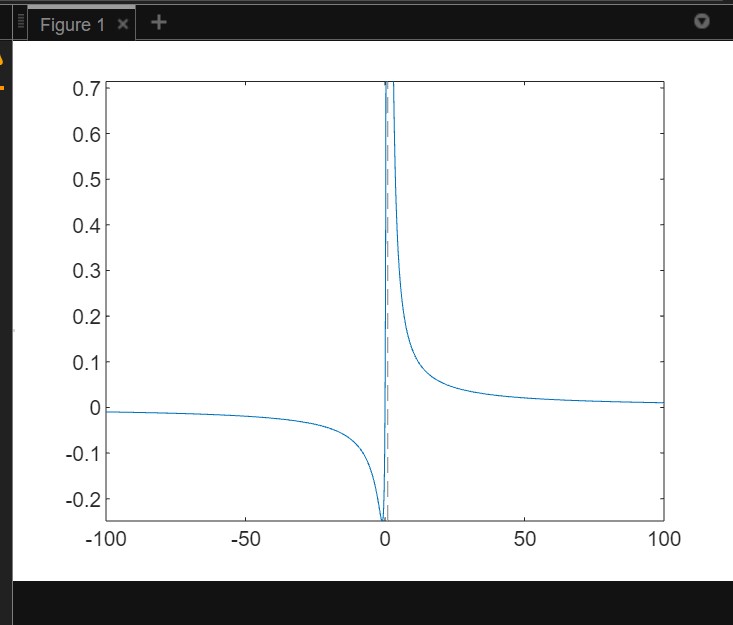


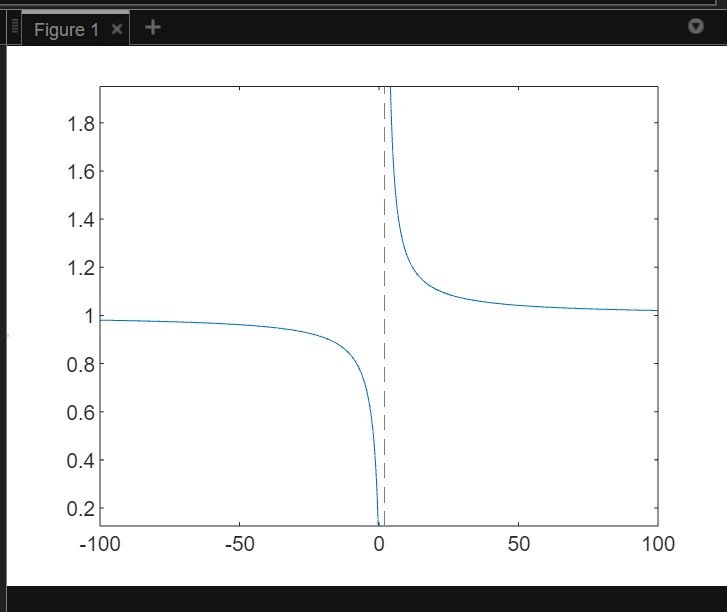


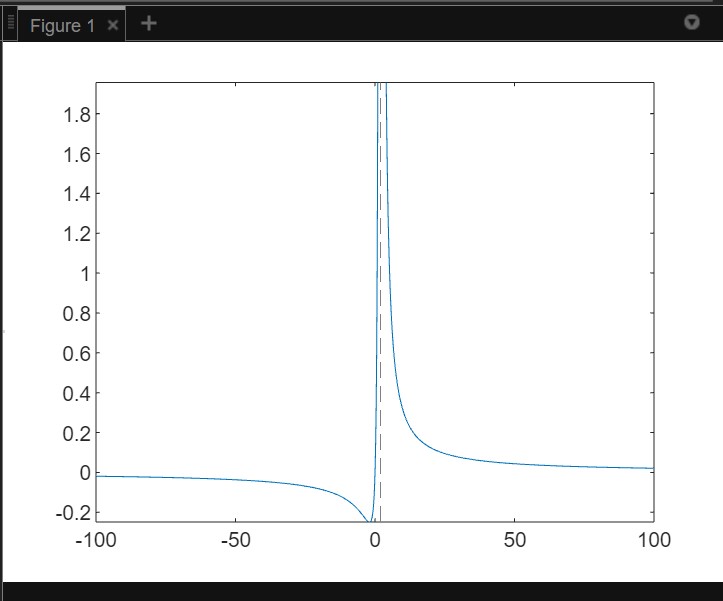
**OUTPUT**

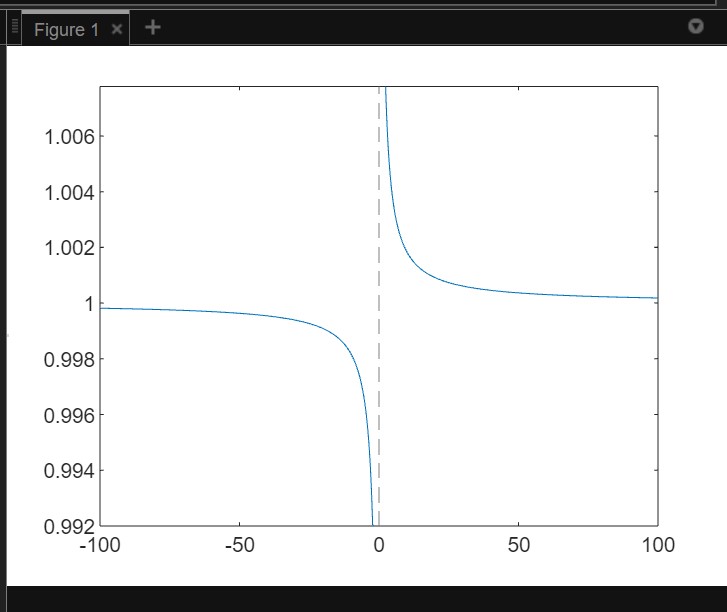
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**GRAPHS (one for each subpart, in order)**

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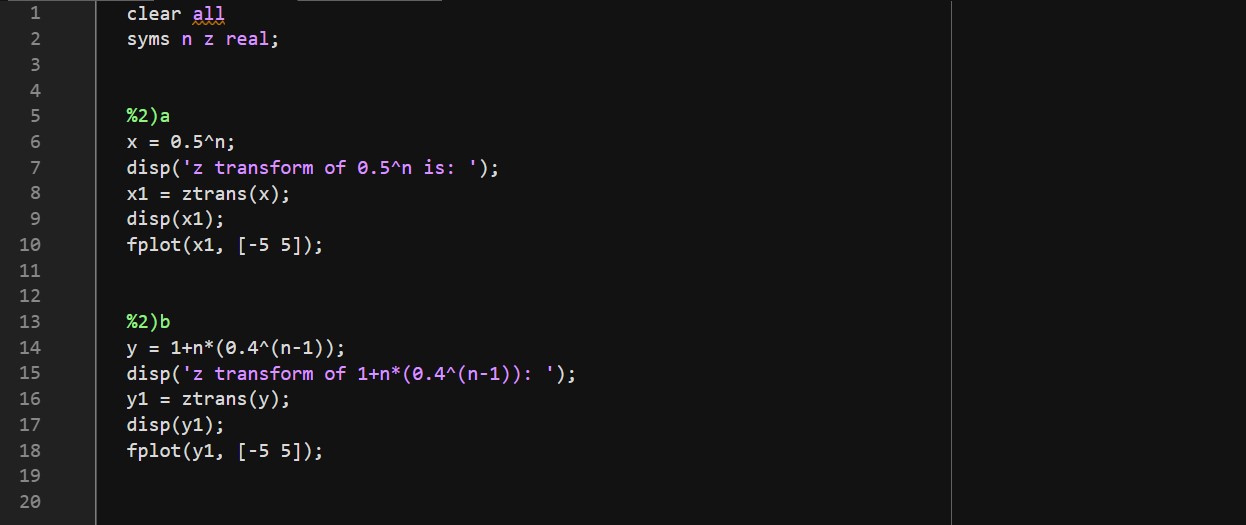
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2) Write a MATLAB/ Python program to find z-transform of the following standard causal signals.

a) 0.5n b) 1+n(0.4)(n-1)

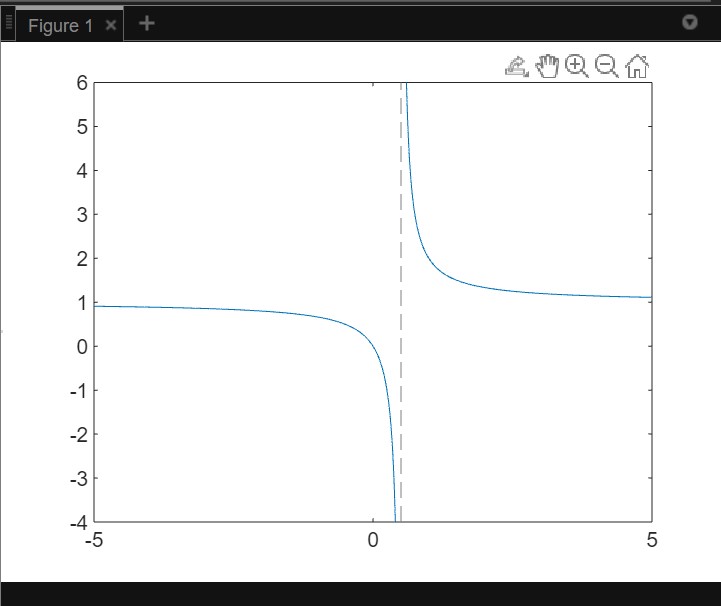
**ANSWERS**

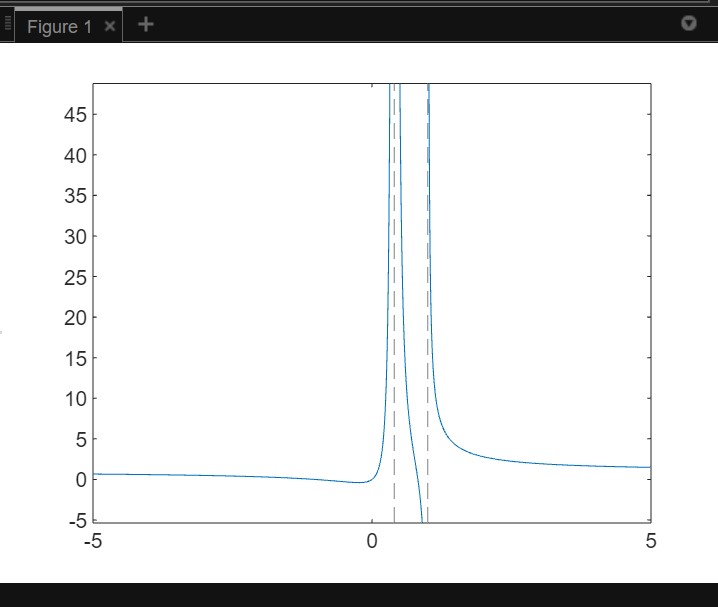
**CODE**

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**OUTPUT**

**GRAPHS (one for each subpart, in order)**

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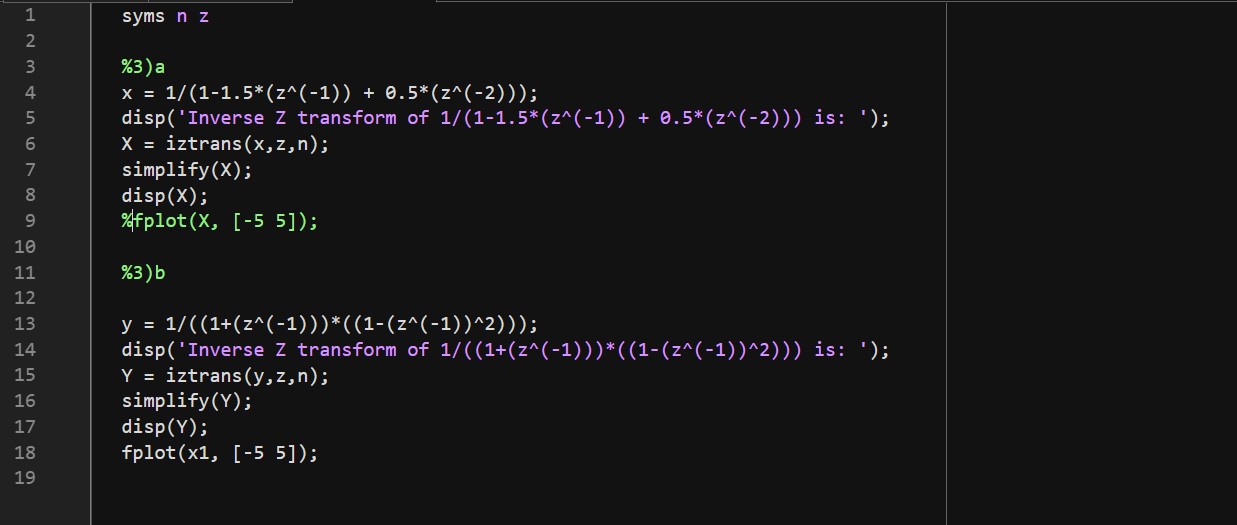
3) Write a MATLAB/ Python program to find inverse z-transform of the following z-domain signals.

a) 1/ (1 - 1.5z-1 + 0.5-2)

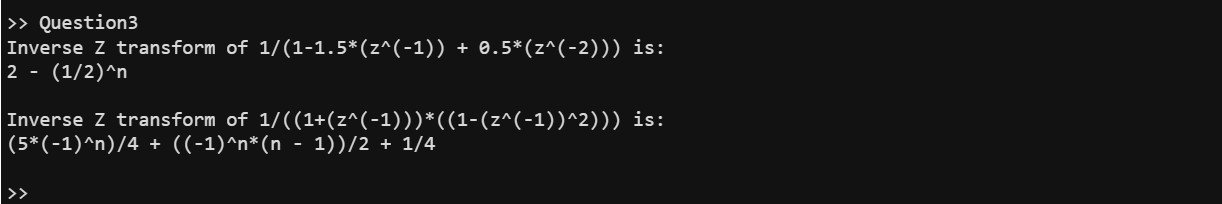
b) 1/((1 + z-1 ) + (1 – z-1 )2)

**ANSWERS**

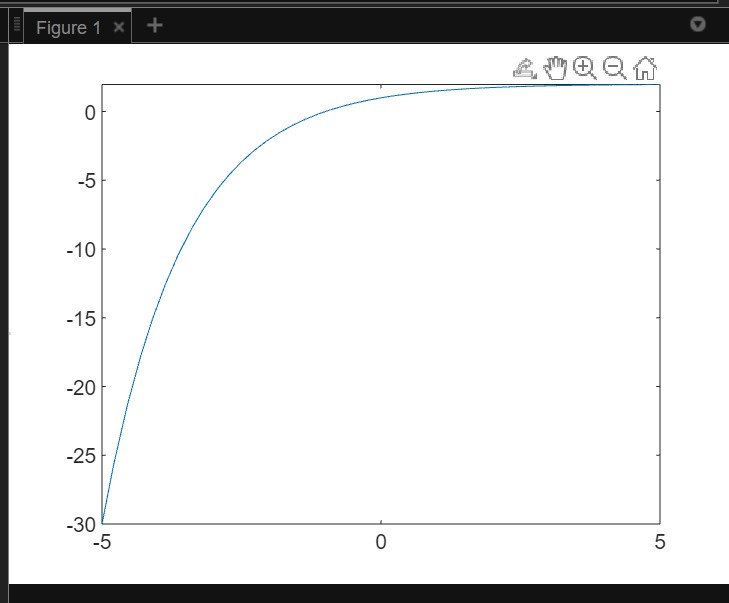
**CODE**

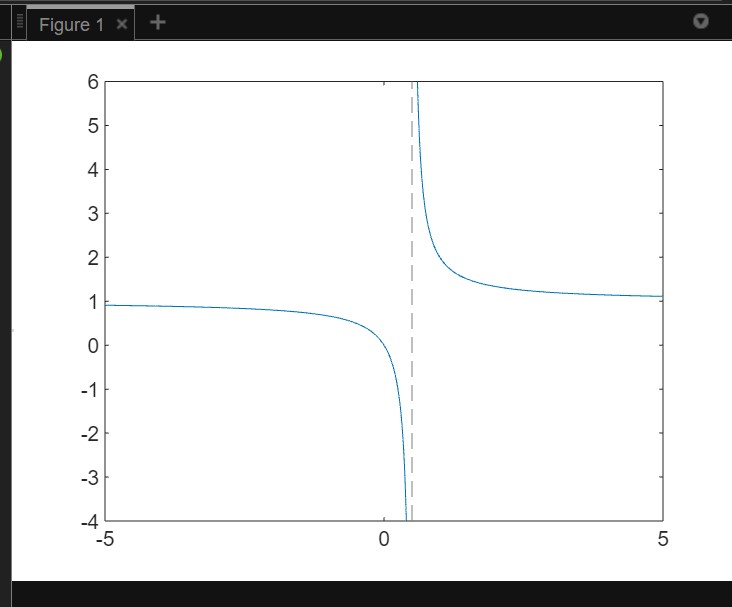


**OUTPUT**

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**GRAPHS (one for each subpart, in order)**

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