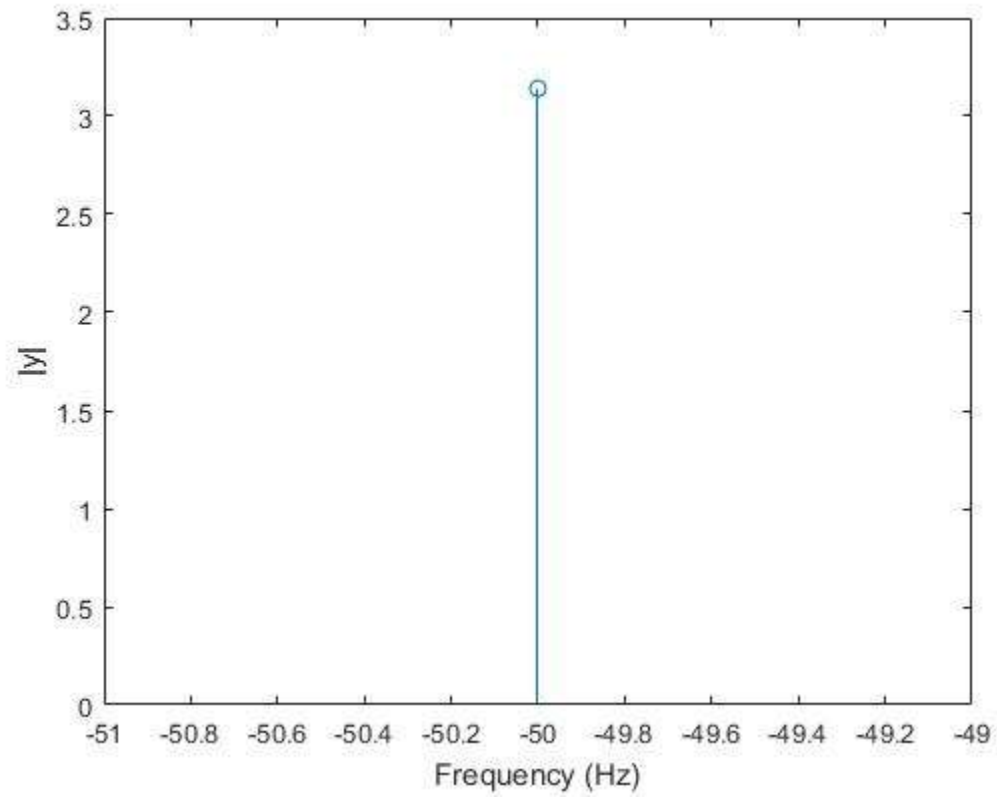


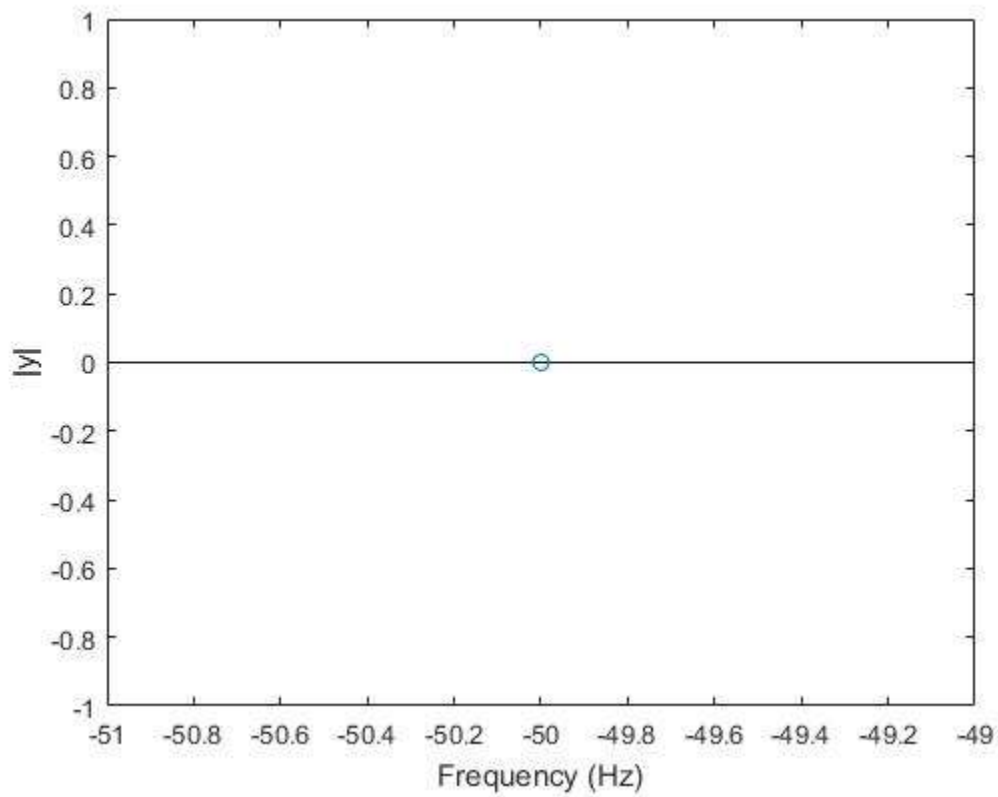
1)

$PI(T) \rightarrow F.T \rightarrow$

ABS:



Phase:



2)

a.

$$\sin(t)/t \rightarrow \text{F.T} \rightarrow 0.9752$$

b.

$$(t)=1+e^{-t^2} \rightarrow \text{F.T} \rightarrow$$

Columns 1 through 4

$$20.9914 + 0.0000i \quad -0.5693 - 0.1672i \quad -0.1025 - 0.0659i \quad -0.0311 - 0.0359i$$

Columns 5 through 8

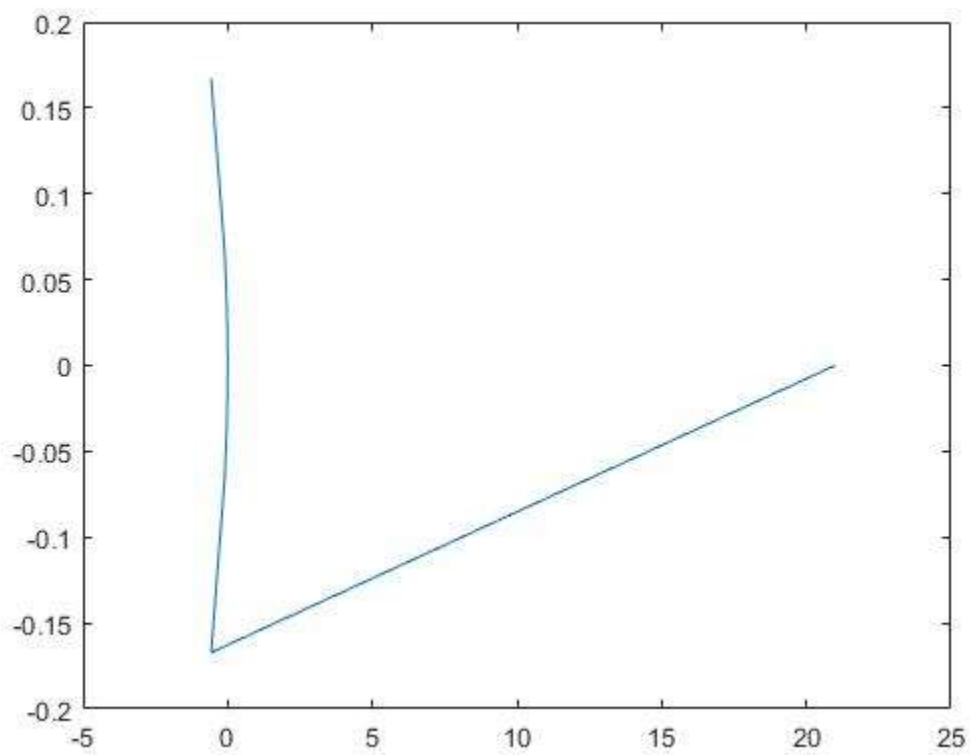
$-0.0086 - 0.0188i$ $-0.0008 - 0.0059i$ $-0.0008 + 0.0059i$ $-0.0086 + 0.0188i$

Columns 9 through 11

$-0.0311 + 0.0359i$ $-0.1025 + 0.0659i$ $-0.5693 + 0.1672i$

SUM:

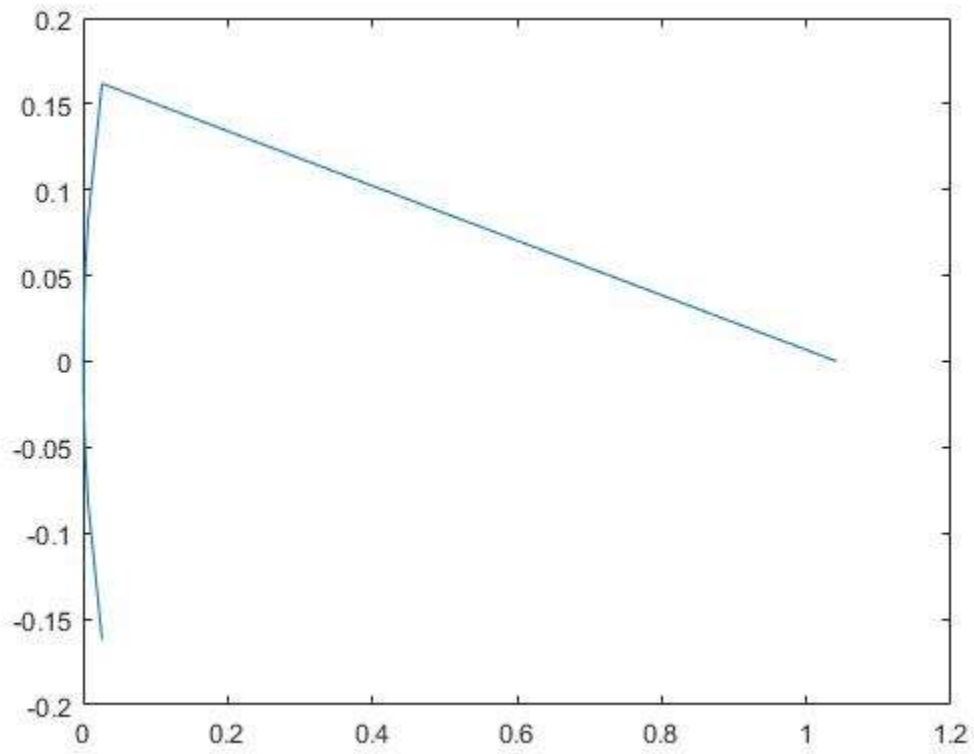
19.5668



3)

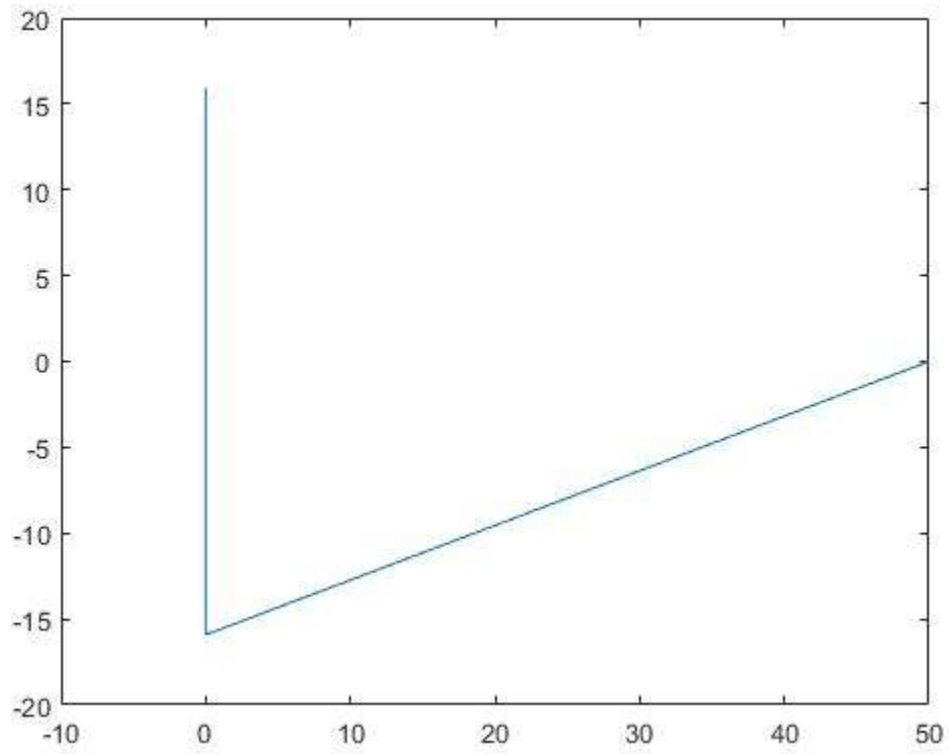
a.

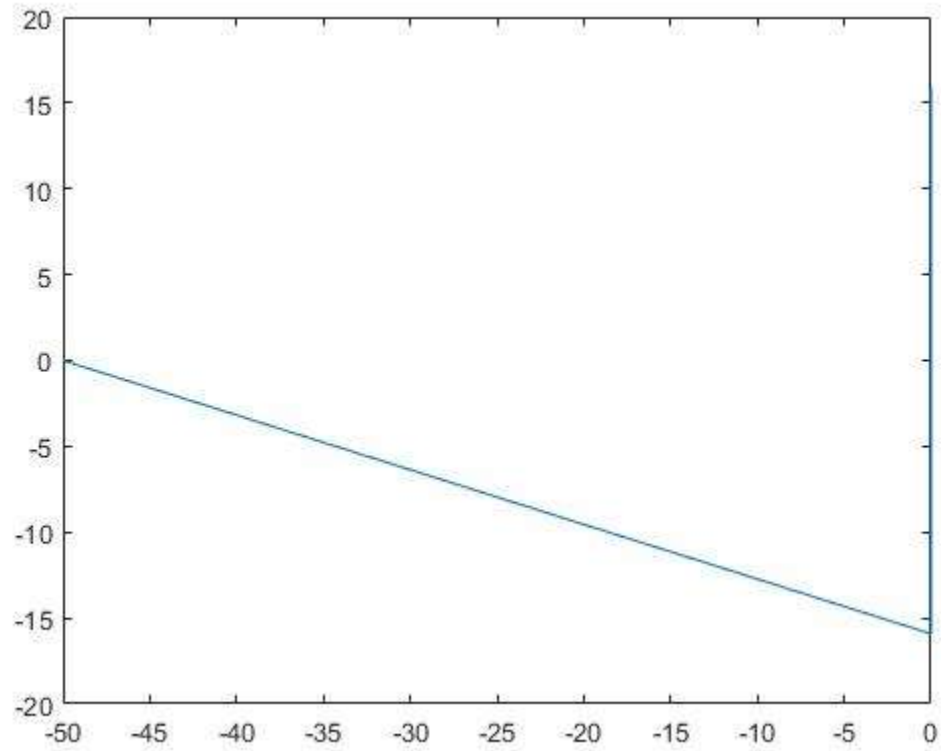
$-0.0001 + 15.9155i$



b.

$$-0.0001 + 15.9155i$$





```
w1=0:0.0001:100;  
w2=-100:0.0001:0;
```

```
a=ifft(w1);  
b=ifft(w2);
```