

Lab Assignment 5

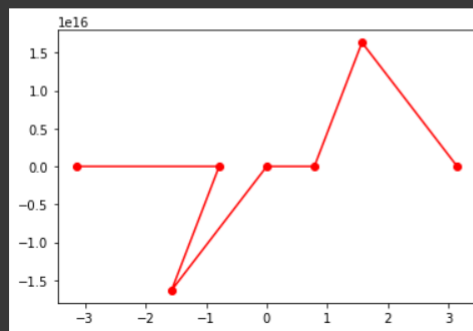
Aishwary Pandey

9918103207

F8

1. Tan

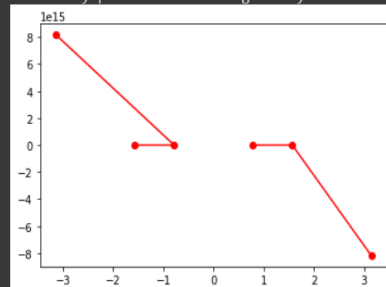
```
[6] x = [-np.pi, -np.pi / 4, -np.pi / 2, 0, np.pi/4, np.pi/2, np.pi]
    y = np.tan(x)
    plt.plot(x,y , color = 'red', marker = "o")
    plt.show()
```



cot

```
[8] y = 1 / np.tan(x)
    plt.plot(x,y , color = 'red', marker = "o")
    plt.show()
```

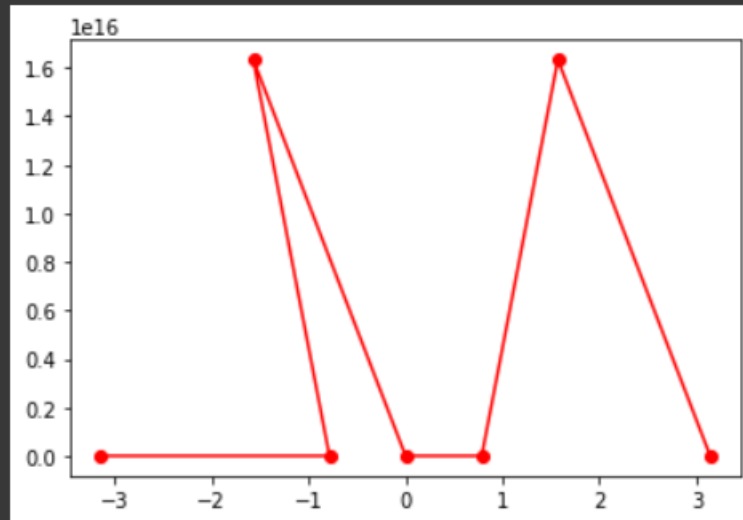
/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:1: RuntimeWarning: divide by zero encountered in true_divide
"""Entry point for launching an IPython kernel.



sec

▶ `y = 1 / np.cos(x)`

```
plt.plot(x,y , color = 'red', marker = "o")  
plt.show()
```

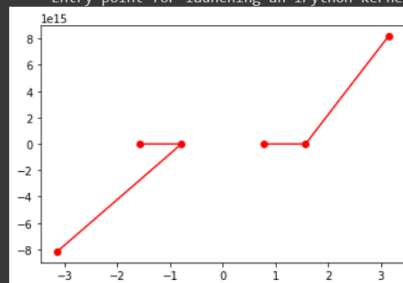


cosec

```
[10] y = 1 / np.sin(x)
```

```
plt.plot(x,y , color = 'red', marker = "o")  
plt.show()
```

/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:1: RuntimeWarning: divide by zero encountered in true_divide
"""Entry point for launching an IPython kernel.



2.


```
[12] import pandas as pd

df = pd.DataFrame({
    'Method': ['A', 'B', 'C', 'D'],
    'Result 1': [2, 5, 8, 5],
    'Result 2': [3, 2, 5, 7]
})

df.head()
```

	Method	Result 1	Result 2
0	A	2	3
1	B	5	2
2	C	8	5
3	D	5	7

```
[13] df.plot(x="Method", y=["Result 1", "Result 2"], kind="bar")
```

 <matplotlib.axes._subplots.AxesSubplot at 0x7f599b7344d0>

