Kernel: SageMath 10.1

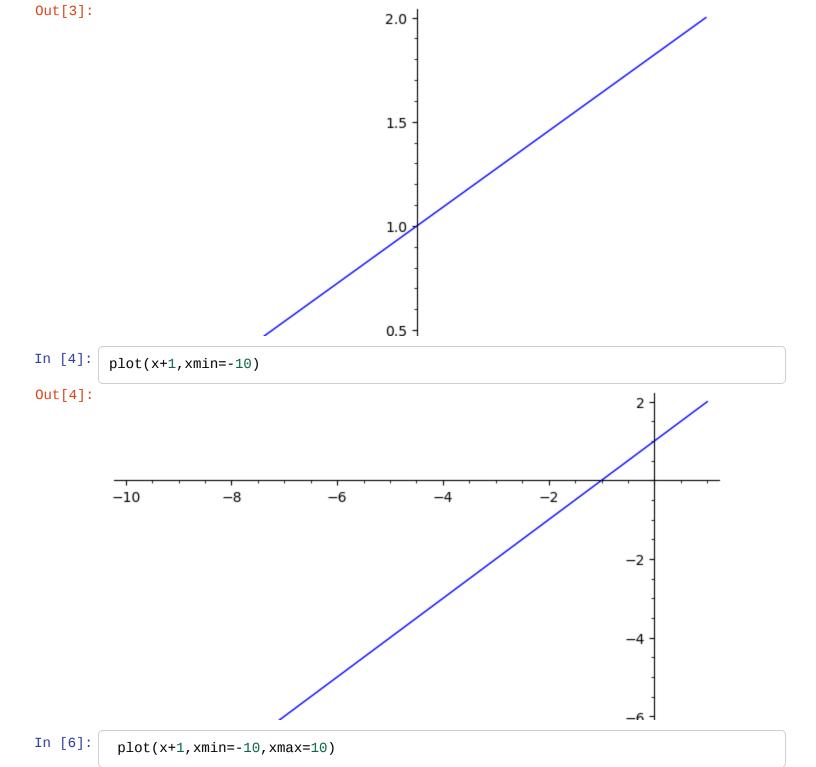
Name: Sumit Helonde

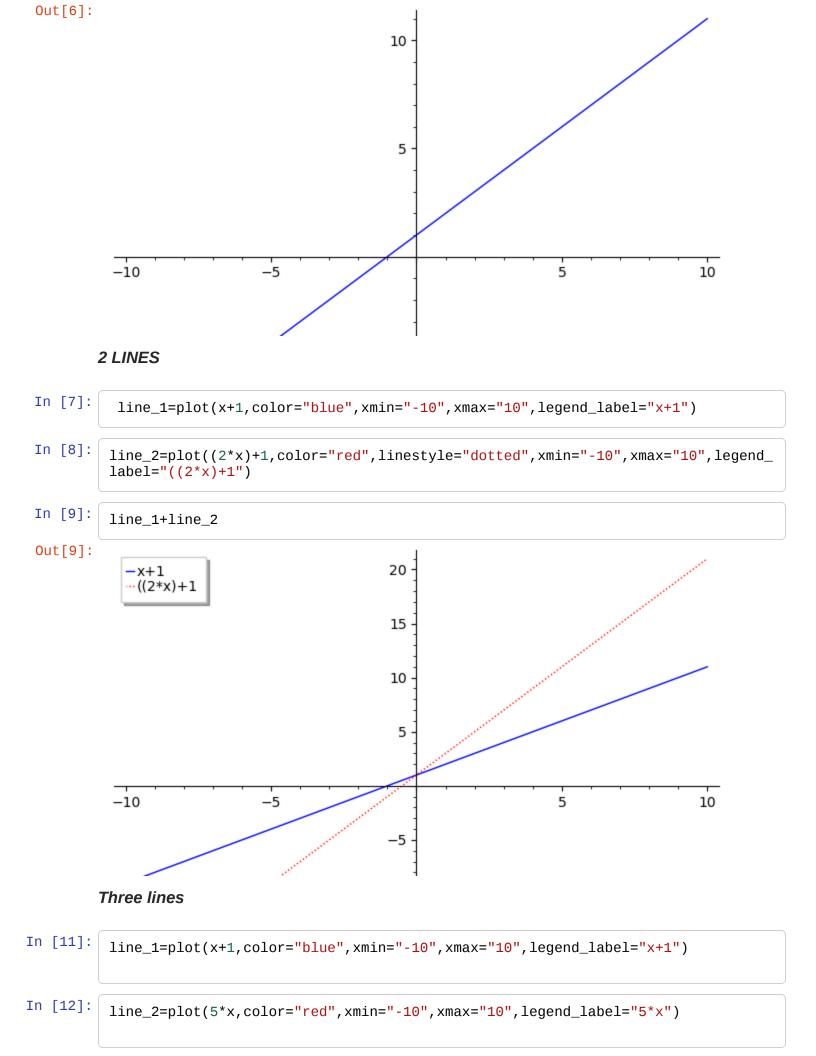
ROLL NO: 58

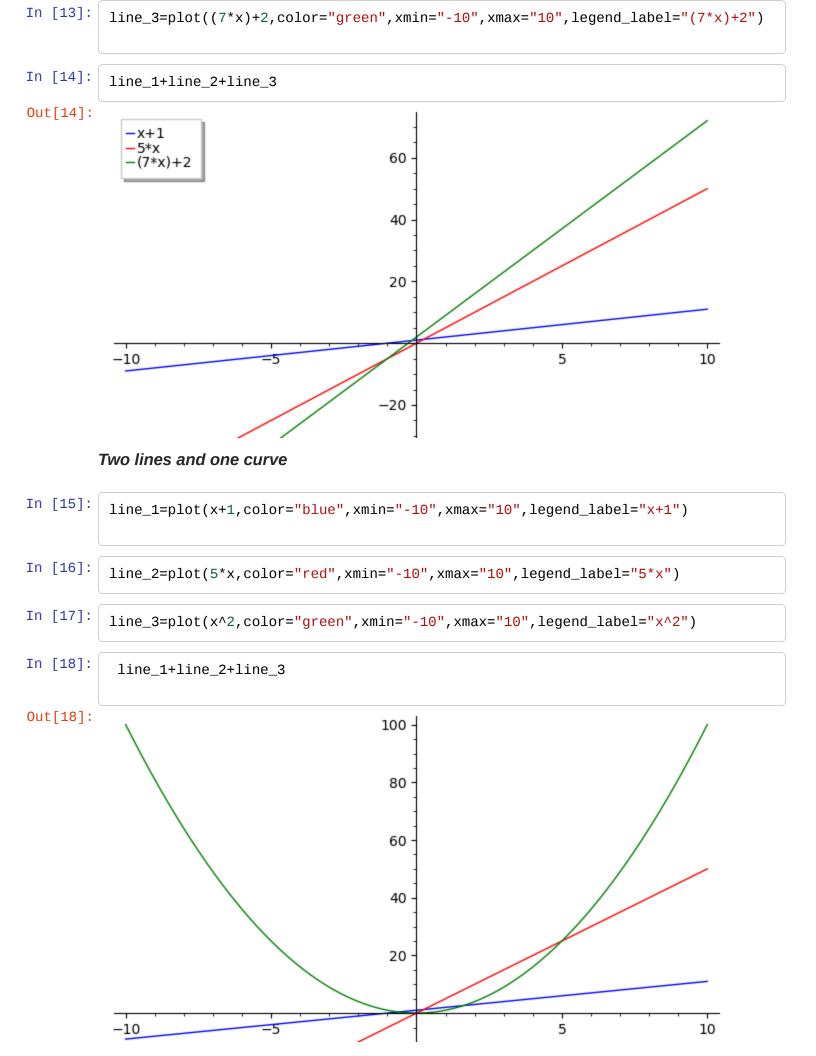
EXPERIMENT NO: 1

AIM: TO PLOT LINE X&Y, COORDINATE AXIS, MULTIPLE LINES, LINE & CURVE, 3D SHAPES.

```
In [1]: | from matplotlib import pyplot as plt
In [2]:
         plt.plot(3,4,marker="^",color="red")
Out[2]: [<matplotlib.lines.Line2D object at 0x7fc3a309ea10>]
         4.20
         4.15
         4.10
         4.05
         4.00
         3.95
         3.90
        1 LINE
In [3]:
         plot(x+1)
```

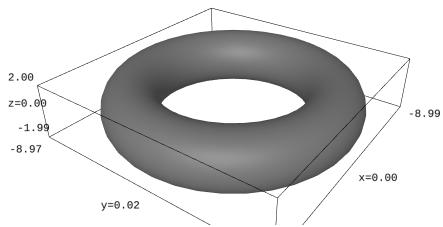






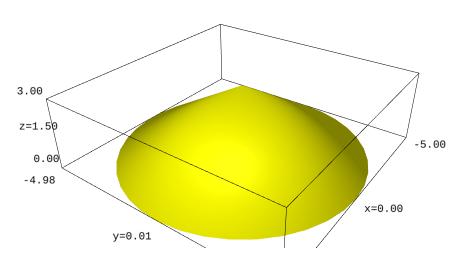
3D shapes

```
In [19]: from sage.plot.plot3d.shapes import Torus
In [20]: Torus(7,2,color="grey")
Out[20]:
```



```
In [21]: from sage.plot.plot3d.shapes import Cone
In [22]: Cone(5,3, color='yellow')
```





CONCLUSION: plotting of a line, ordinate axis x and y axis, multiple lines is successfully satisfied using sage maths.