첨단과학의세계 과제1

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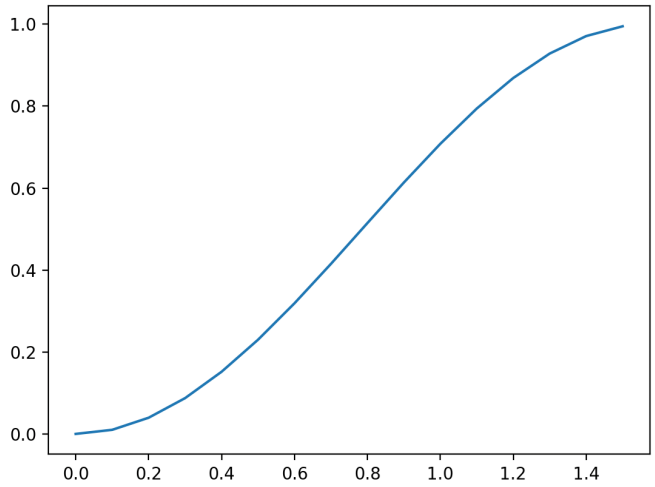
1. Mathematical Methods in the Physical Sciences 3ed (348p)

```
import matplotlib.pyplot as plt
import numpy as np

x = []
y = []

for t in np.arange(0,1.57,0.1):
    x.append(t)
    y.append(np.sin(t) * np.sin(t))

plt.plot(x,y)
plt.show()
```



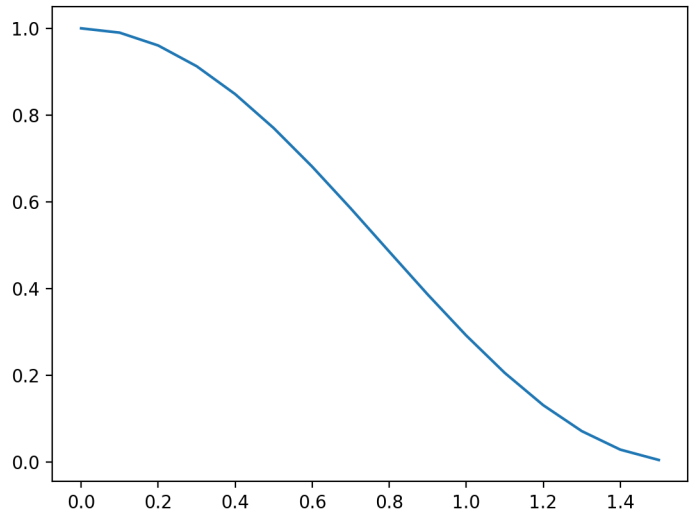
2. Mathematical Methods in the Physical Sciences 3ed (348p)

```
import matplotlib.pyplot as plt
import numpy as np

x = []
y = []

for t in np.arange(0,1.57,0.1):
    x.append(t)
    y.append(np.cos(t) * np.cos(t))

plt.plot(x,y)
plt.show()
```



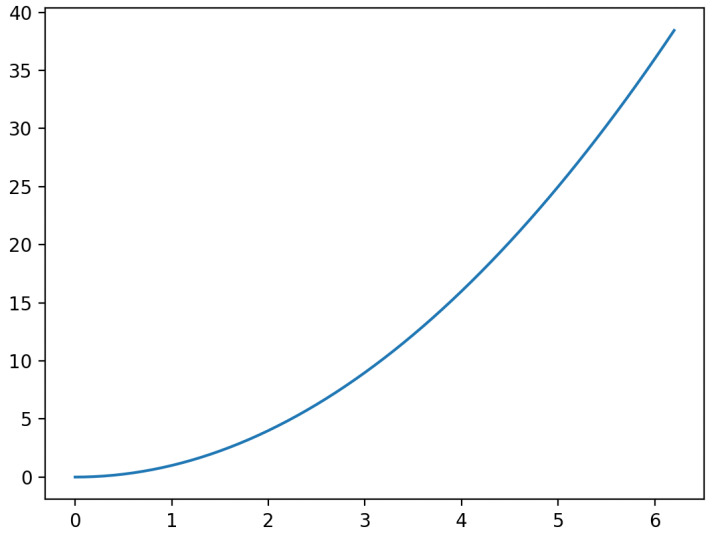
3. Mathematical Methods in the Physical Sciences 3ed (361p)

```
import matplotlib.pyplot as plt
import numpy as np

x = []
y = []

for t in np.arange(0,6.28,0.1):
    x.append(t)
    y.append(t * t)

plt.plot(x,y)
plt.show()
```



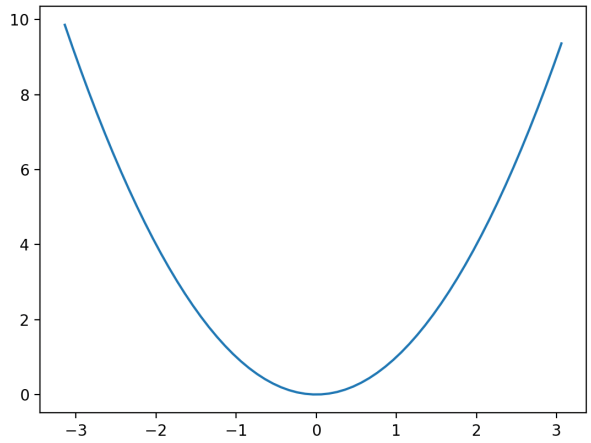
4. Mathematical Methods in the Physical Sciences 3ed (361p)

```
import matplotlib.pyplot as plt
import numpy as np

x = []
y = []

for t in np.arange(-3.14,3.14,0.1):
    x.append(t)
    y.append(t * t)

plt.plot(x,y)
plt.show()
```



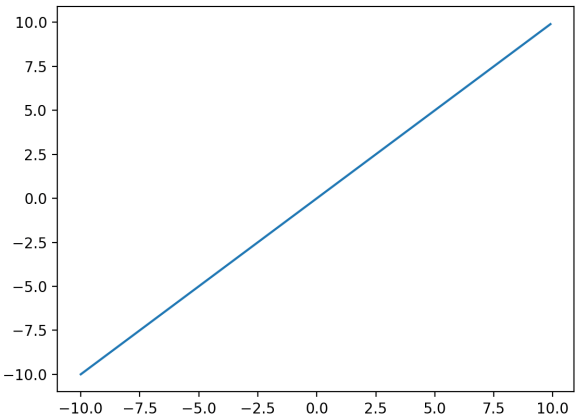
5. Mathematical Methods in the Physical Sciences 3ed (364p)

```
import matplotlib.pyplot as plt
import numpy as np

x = []
y = []

for t in np.arange(-10,10,0.1):
    x.append(t)
    y.append(t)

plt.plot(x,y)
plt.show()
```



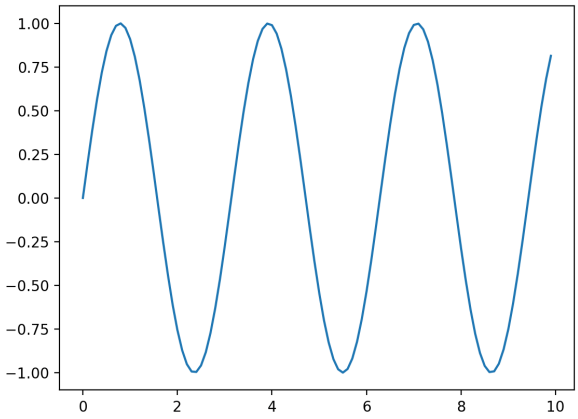
6. Mathematical Methods in the Physical Sciences 3ed (636p)

```
import matplotlib.pyplot as plt
import numpy as np

x = []
y = []

for t in np.arange(0,10,0.1):
    x.append(t)
    y.append(np.sin(2 * t))

plt.plot(x,y)
plt.show()
```



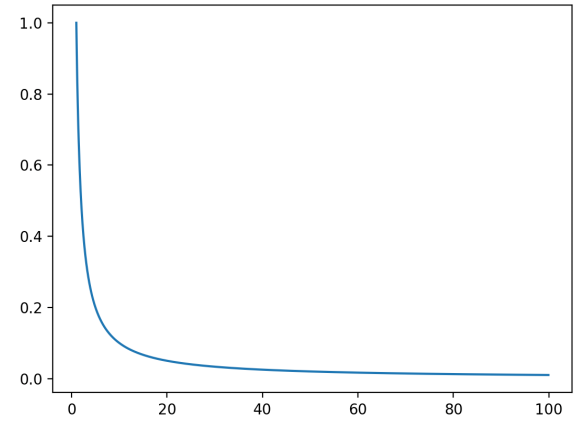
7. Mathematical Methods in the Physical Sciences 3ed (12p)

```
import matplotlib.pyplot as plt
import numpy as np

x = []
y = []

for t in np.arange(1,100,0.1):
    x.append(t)
    y.append(1/t)

plt.plot(x,y)
plt.show()
```



8. Mathematical Methods in the Physical Sciences 3ed (31p)

```
import matplotlib.pyplot as plt
import numpy as np

x = []
y = []

for t in np.arange(-2,1.5,0.1):
    x.append(t)
    y.append(np.sin(t)/t)

plt.plot(x,y)
plt.show()
```