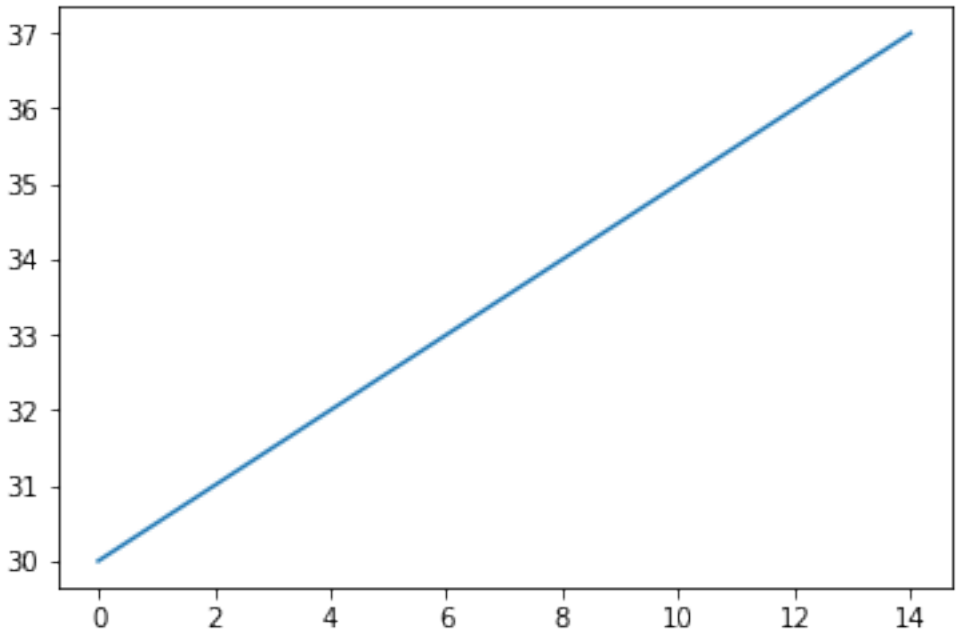
Homework1

January 20, 2019

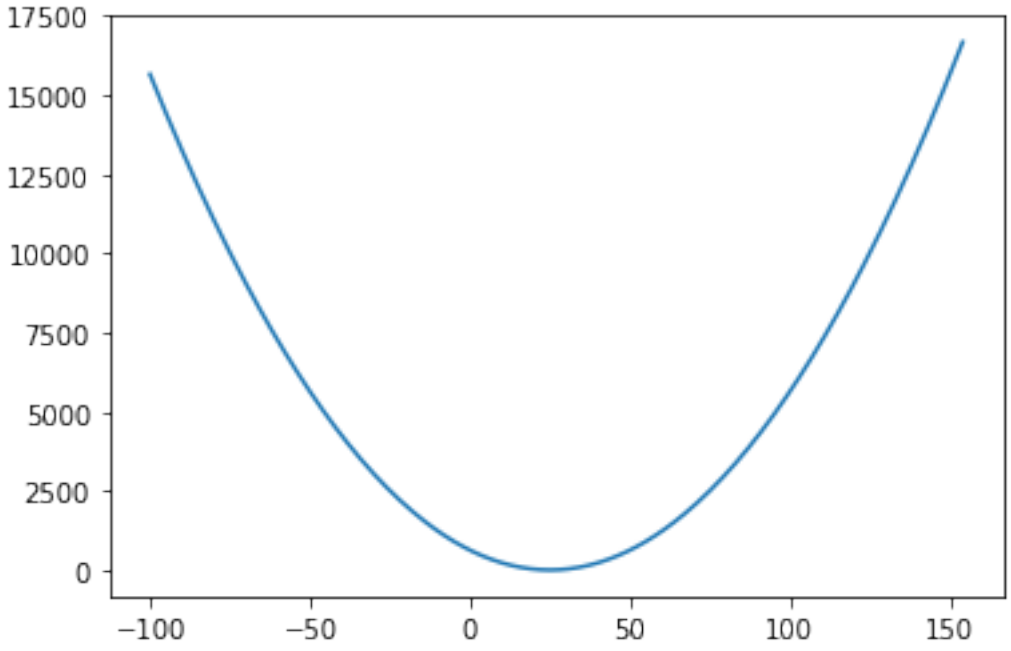
In [49]:
```
import numpy as np
import matplotlib.pyplot as plt

ax = plt.subplot(111)
x = np.arange(0,15)
theta0 = 30
theta1 = 0.5
plt.plot(x,theta0+theta1*x,linestyle='-')
plt.show()
```

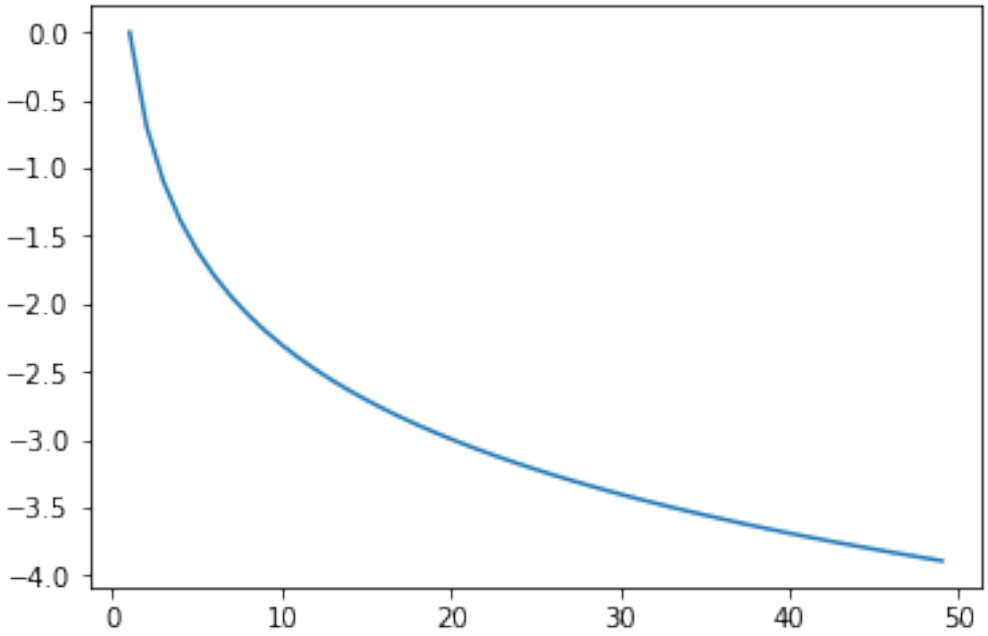


In [60]:
```
ax = plt.subplot(111)
x = np.arange(-100,155)
theta0 = 20
theta1 = 25
y = ((x-theta1)**2)+theta0
```

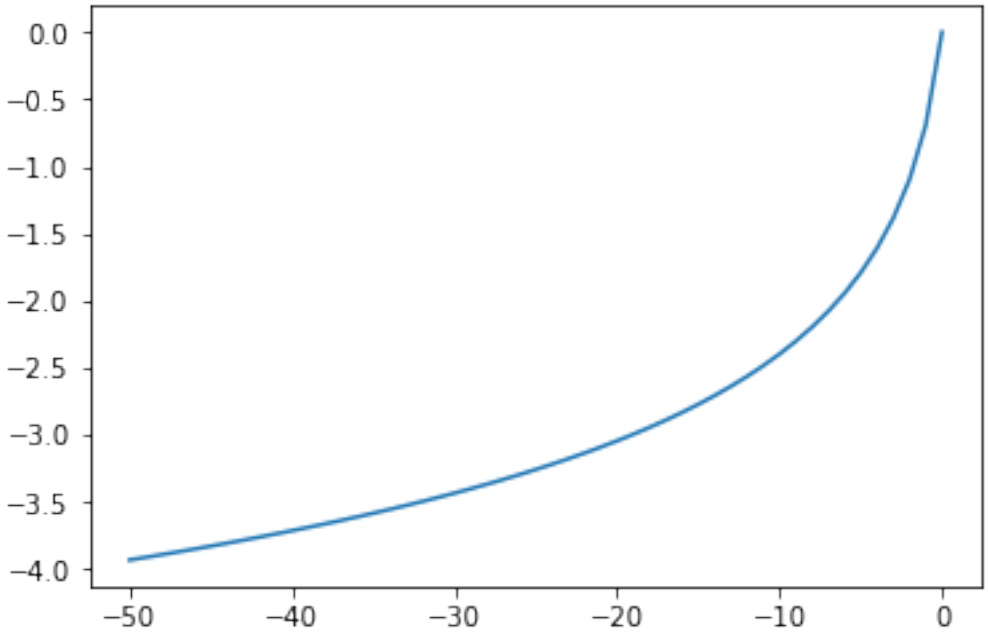
```
plt.plot(x,y,linestyle='-')
plt.show()
```



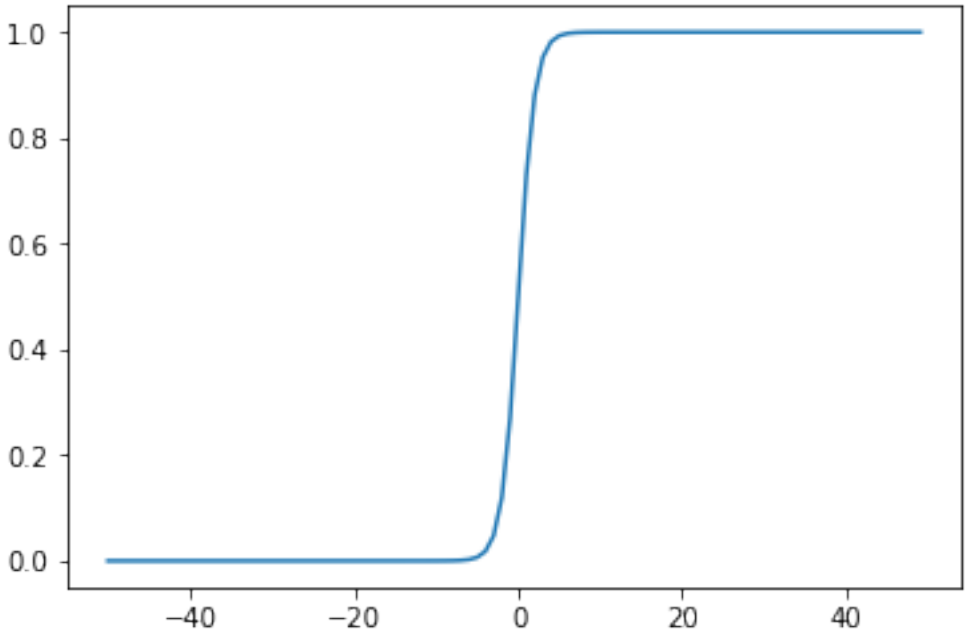
In [48]:
```
ax = plt.subplot(111)
x = np.arange(1,50)
y = -np.log(x)
plt.plot(x,y,linestyle='-')
plt.show()
```



In [42]:
```
ax = plt.subplot(111)
x = np.arange(-50,1)
y = -np.log(1-x)
plt.plot(x,y,linestyle='-')
plt.show()
```



In [61]:
```
ax = plt.subplot(111)
x = np.arange(-50,50)
y = 1/(1+np.exp(-x))
plt.plot(x,y,linestyle='-')
plt.show()
```



In [ ]: