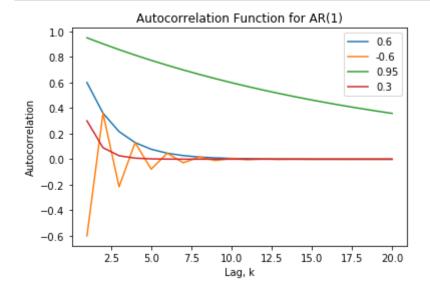
```
In [6]: # phi for parts a-d
    phi = np.array([0.6, -0.6, 0.95, 0.3])
    k = np.arange(1, 21)

In [14]: for i in range(len(phi)):
        plt.plot(k, phi[i]**k)

    plt.legend([phi[0], phi[1], phi[2], phi[3]])
    plt.title('Autocorrelation Function for AR(1)')
    plt.ylabel('Autocorrelation')
    plt.xlabel('Lag, k')
    plt.show()
```



In [1]: import matplotlib.pyplot as plt
import numpy as np

```
In [ ]:
```