

Department: Computer Science & Engineering

<u>Assignment – Lab 3</u>

Semester : Fall 2021 Course Number : CSE366

Course Title : Artificial Intelligence

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Section: 01

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Exercise Lab 3

1) Find root of $ax^2 + bx + c$, consider fixed x value but take multiple values for coeffs. Hints: def f(x, coeff), coeff = (2, 1).

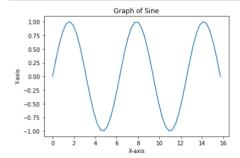
2) Write a function in Python which takes two sequences as arguments and returns True if every element in a sequence is also an element of second sequence, else False."

True

3) Plot sin, cosine, and tan function using np library. Use linspace to generate values.

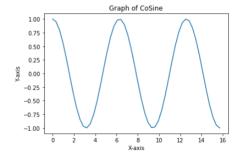
```
In [30]: 1 import numpy as np import matplotlib.pyplot as plt
```

Sin Graph

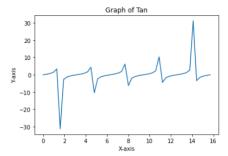


Cos Graph

```
In [50]: 1 x=np.linspace(0,5*np.pi)
2 y=np.cos(x)
3 plt.plot(x,y)
4 plt.title('Graph of CoSine')
5 plt.xlabel('Y-axis')
6 plt.ylabel('Y-axis')
7 plt.show()
```



Tan Graph



In []: 1