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Lab Assignment 10

Date:

**Control Theory Lab 10 dated 07-01-2022.**

**Python Code:**

import numpy as np

import matplotlib.pyplot as plt

import control

import math

A=[[0,1,0],[0,0,1],[-1,-5,-6]]

B=[ [0],[0],[1]]

s1 = (-2+4j)

s2 = (-2-4j)

s3 = -10

J = [s1, s2, s3]

K = control.place(A, B, J)

K1 = control.acker(A, B, J)

print("Gain (k): ", K)

print("Gain (k1): ", K1)

**Output:**

Gain (k): [[199. 55. 8.]]

Gain (k1): [[199. 55. 8.]]

**Learning outcomes:**

**Conclusion:**