PANER, Luke Eleazar R.

PRESTADO, Kyle Ross T.

2ECE-A

**Problem 2 Python:**

def problem2(x1,y1,x2,y2,x3,y3):

import numpy as np

import math

DEF=np.array([[x1,y1,1],[x2,y2,1],[x3,y3,1]])

X=np.array([(-x1\*\*2)+(-y1\*\*2),(-x2\*\*2)+(-y2\*\*2),(-x3\*\*2)+(-y3\*\*2)])

Unknowndef = np.linalg.solve(DEF,X)

D=Unknowndef[0]

E=Unknowndef[1]

F=Unknowndef[2]

h=-D/2

k=-E/2

r=math.sqrt(-F+((D\*\*2/4))+((E\*\*2))/4)

print(Unknowndef)

print(h)

print(k)

print(r)

