Riley Payung

CDS 251

02/23/2020

Assignment 4.2

# 5th System

The fifth system, done on paper results in a determinant of 0; however, in fortran, it resulted in a determinant of -3.43322754E-05, which may be due to the fact that when I looked at the 5th matrix in data2.txt, there is a single number (-2.0) that I think the program believes is an integer, leaving us with a precision error. Since the number is considered an integer instead of a real, the rational part of the multiplication is truncated in some of the determinant parts. (At least that is what I think is happening)

# Results:

38.0000000   
7.00000000

No Solution

-433.963989   
-105.441994   
-93.2330017

0.00000000   
0.00000000   
0.00000000

281.291992  
-115.368004  
-79.2660065

3.00000000   
2.00000000  
-1.00000000