Machine Problem 2 (PYTHON)

Spyder (Python 3.7)

File   Edit   Search   Source   Run   Debug   Consoles   Projects   Tools   View   Help

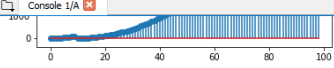Editor - C:\Users\HP\Downloads\MP ...

MPprob2.py*

```
1 import math
2
3 x1, y1, x2, y2, x3, y3 =
4
5
6
7 D = (((x1**2-x3**2)*(x1-x
8         (x1-x3)+(y2**2-
9         (y2-y1)*(x1-x3
10
11 E = (((x1**2-x3**2)*(y1-y
12        (y1-y3)+(y2**2-
13        (x2 - x1)*(y1-
14
15 F = (-x1**2-y1**2)-(2*E*x
16
17 H = -E;
18 K = -D;
19 SQUARERADIUS = (H**2)+(K*
20 R = round(math.sqrt(SQUAR
21
22 print("Given the data poi
23 print("The center is = ",
24 print("The radius is = ",
25 print("The vector [D, E,
26
27
```

Help

Source   Console

Object

Usage

Variable explorer   File explorer   Help

IPython console

Console 1/A

In [2]: runfile('C:/Users/HP/Downloads/MP PROBLEMS/MPprob2.py', wdir='C:/Users/HP/Downloads/MP PROBLEMS')

Enter the 3 data points separated by spacebars.NOTE: It should be entered in this format: x1 y1 x2 y2 x3 y3: 2 1 0 5 -1 2
Given the data points: (2, 1) , (0, 5) , and (-1, 2)
The center is = (1, 3)
The radius is = 4.12
The vector [D, E, F] is = [-3, -1, -7]

In [3]:

IPython console   History log

Permissions: RW   End-of-lines: CRLF   Encoding: ASCII   Line: 27   Column: 1   Memory: 87 %

Type here to search

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08/12/2019