

Follow the same guidelines as in Homework 4 for this assignment.

- 1) (3 pts) Write a script that will ask the user to input the coordinates of two points (x_1, y_1) and (x_2, y_2) in the x - y plane and computes the equation of the line between them. You can assume that the slope of the line will not be infinite. Test your script using the points $(-1,3)$ and $(4,2)$.
- 2) (6 pts) Consider the 2×2 set of equations below.

$$\begin{aligned}x + ay &= b \\ cx + dy &= e.\end{aligned}$$

First, derive the solution to this set of equations (show your work). Then write a script that will ask the user to input values of a, b, c, d and e and outputs the solution x and y . Test your script using the system

$$\begin{aligned}x + 2y &= -1 \\ 3x - 4y &= 1.\end{aligned}$$