

HW7

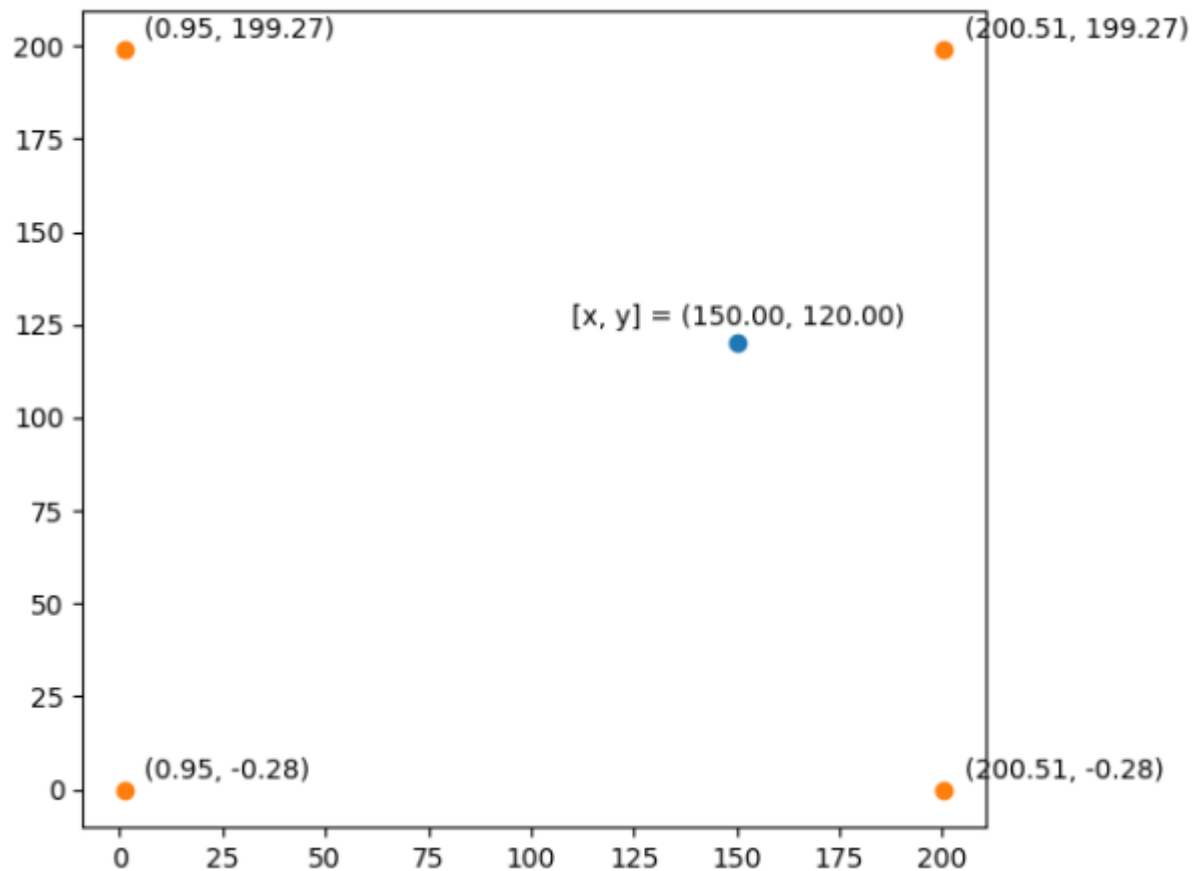
Q1

Warning: the python code is base on sympy, please install this package to run the source code!

Set $[x, y] = (150, 120)$, $a = 200$, $[x_0, y_0] = (0, 0)$ as parameters.

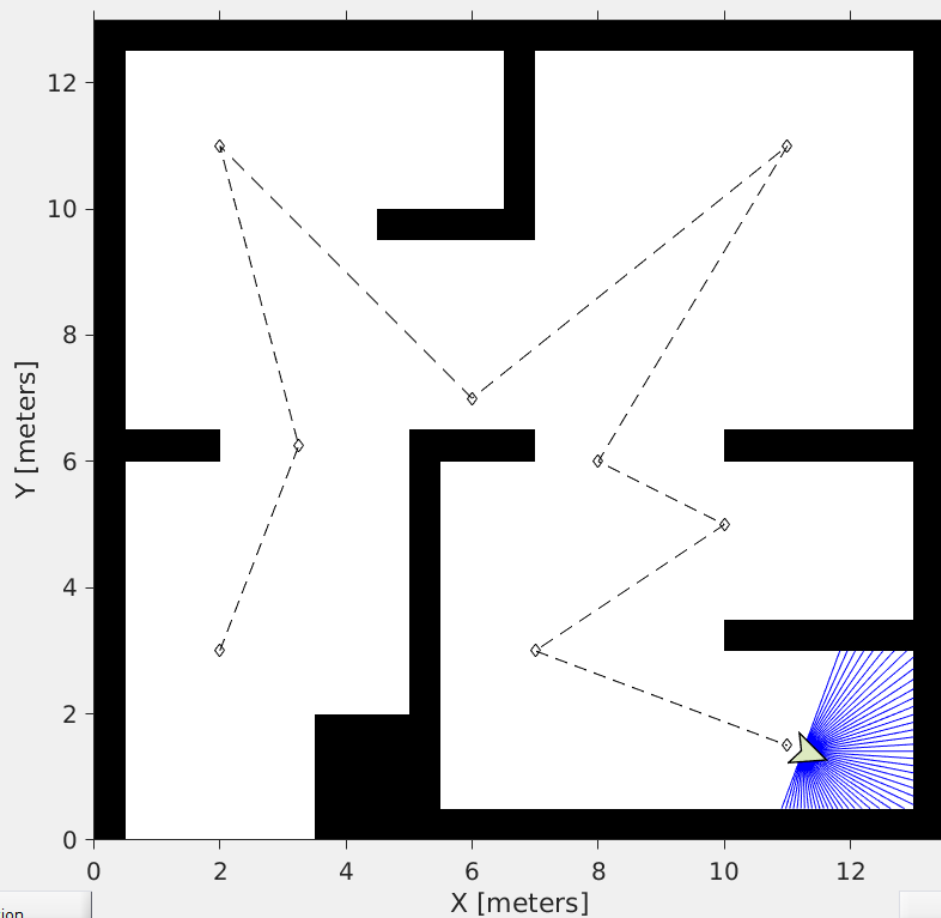
The r is added ($\mu = 0, \theta = 1$) gaussian noise.

Only use three of r to solve the equation to avoid over-deterministic, which would cause unsolvable equations.



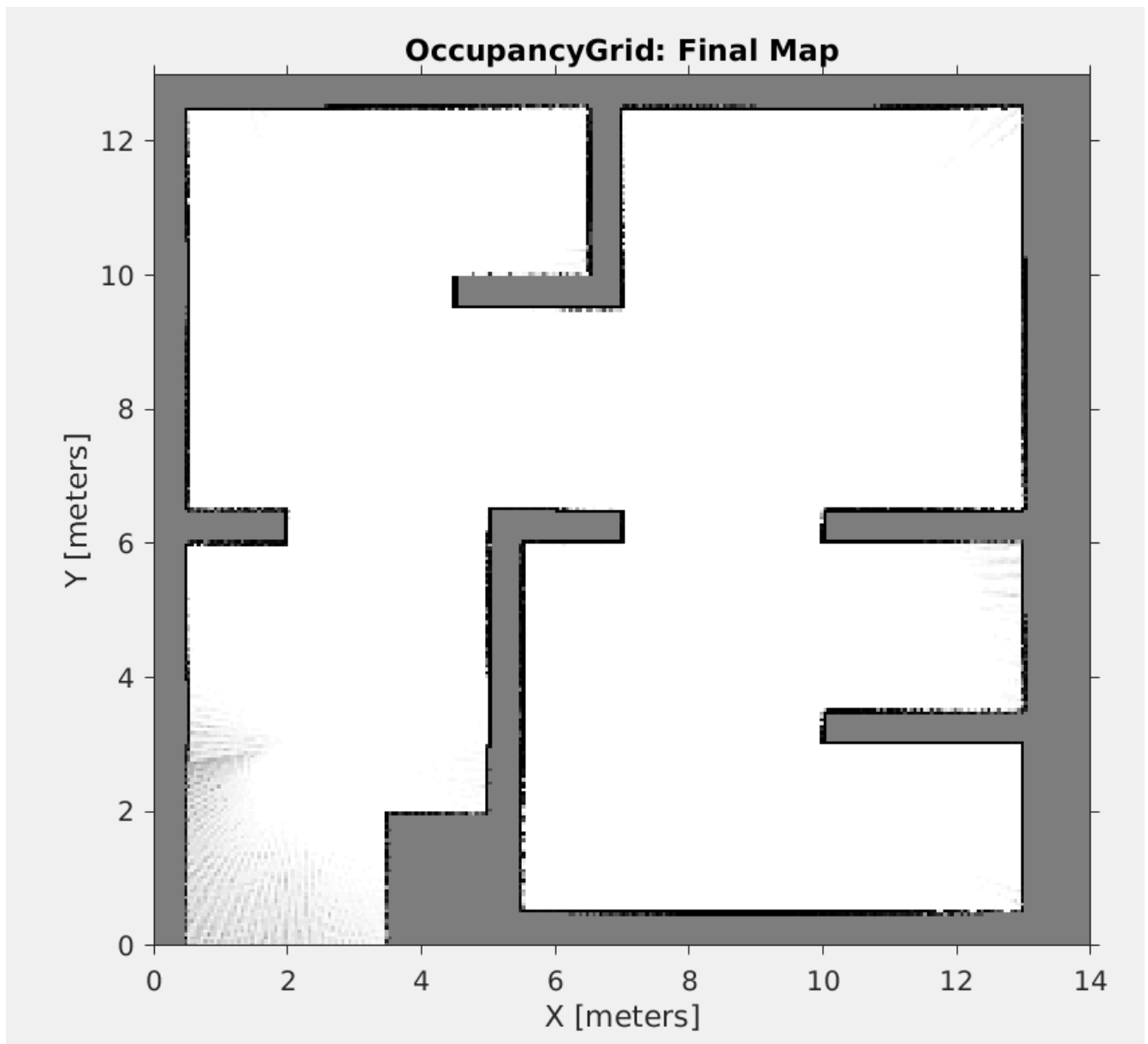
Q2

Following the guide:



Reset Simulation

Randomize Location



Q3

Following the guide:

