

# Assignment on Trilateration

Create the following two Matlab functions:

Function for 2D-Trilateration to calculate the 2D- position [i.e., (x,y) coordinates] of certain point where:

- The function's inputs should be the 2D-position of three points and their distances to the required point.
- The output should be the 2D-position of the required point.

Function for 3D-Trilateration to calculate the 3D- position [i.e., (x,y,z) coordinates] of certain point where:

- The function's inputs should be the 3D-position of four points and their distances to the required point.
- The output should be the 3D-position of the required point.

- Call your functions with appropriate inputs and test your output

- Write a pdf report to show the matlab codes of the functions and the results you obtained.
- Student name should be written as a comment line in the beginning of the matlab files, and at the cover page of the report.
- Upload both source codes and pdf report on the specified link.
- Please don't send compressed folders, only separate files should be uploaded.