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Homework 1

- All the code is included in this folder. Run it by running TIP_demo. We made changes to computeH and TIP_demo and included new files called “generateDepth.m” and “generateSquare.m”
- We estimated the room’s geometry by using similar triangles based on the back wall specified and the viewpoint. We calculated the depth 4 times, one for each wall (not the back wall), however the values only varied slightly.
- To compute the homogeneity of each wall, we used 4 source points (the corners, in a trapezoid shape) and 4 destination points in a rectangular shape based on the depth of the room. We then create a matrix with the 8 unknowns ($i = 1$) and use matlab \ to solve for h.
- The images that we generated are in the folder called “images”