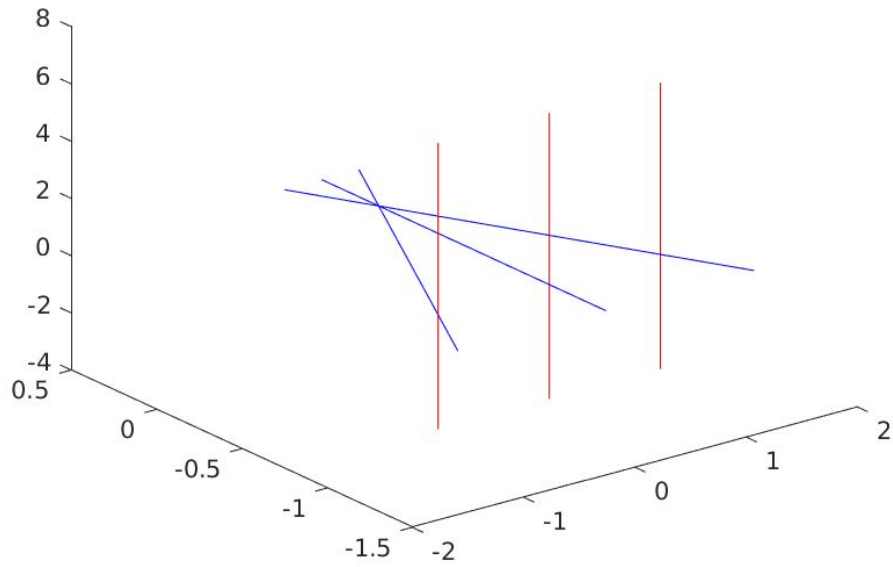
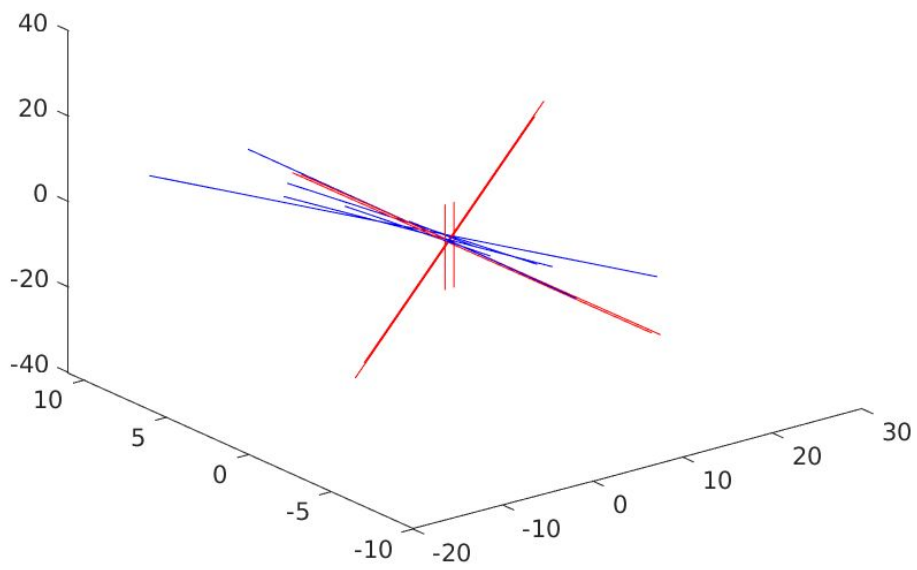


Problem 1

1 (b) find intersection plot for lines L1 & L2



1 (d) Pairwise intersection of parallel lines



Problem 2

a. Compute homography:

- To compute homography between two images, I implemented DLT algorithm which takes 4 corresponding points from two images and finds the transformation between them $p = H * p'$

b. Composite panorama:

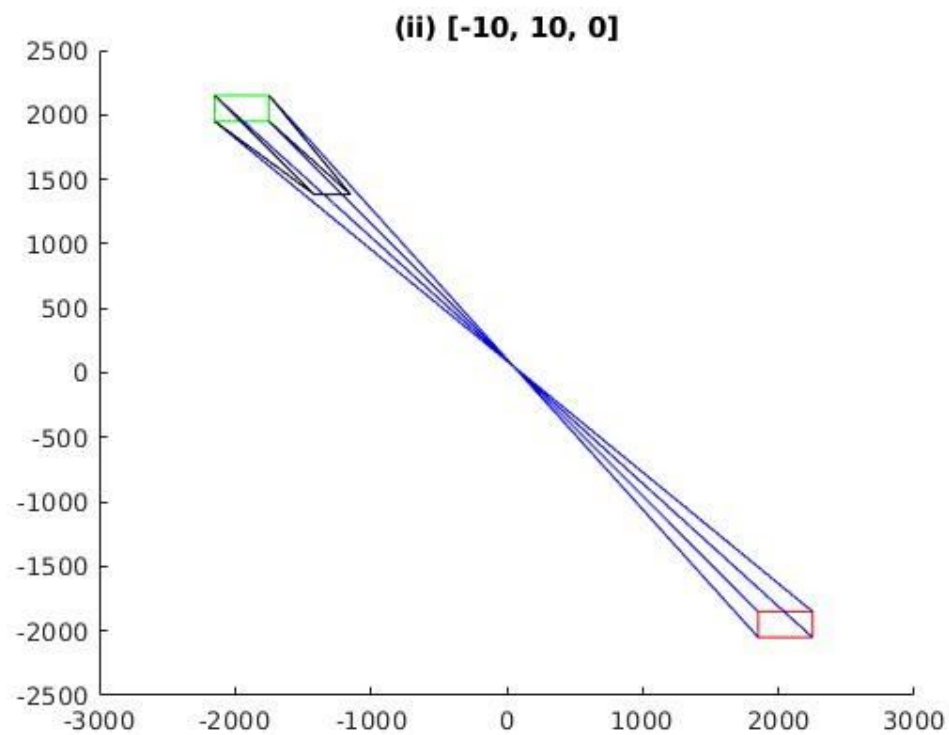
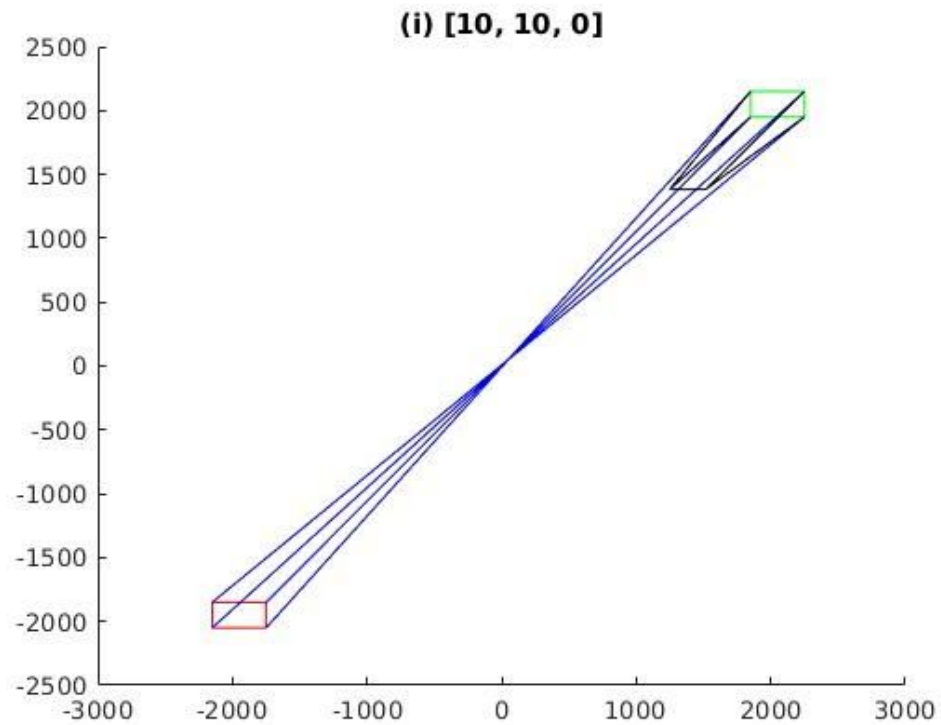
- To make a composite panorama of the three provided images, I followed the following steps:
 - Compute homography using the above-created function between the first two images
 - Computer homography for the last two images
 - Expand the middle image (with padding) and add the first image to the left and the last image to the right
 - Use bilinear interpolation to deal with non-integer pixel values

Composite Panaroma Image:



Extra Credit

- I have used the rotation matrix as an identity matrix for the computations



(iii) [0, 0, 10]

