Homework 2

Part 1
The purpose of this part of the homework is to implement a C or Matlab program that checks the epipolar contraint between a stereo pair. That is, write a program that, given the calibration matrices (intrinsic and extrinsic) for a stereo pair, once a point is selected on the right (or left) image, the corresponding epipolar line on the left (or right) image is presented (see figure below).

Part 2
If the calibration matrices (intrinsic and extrinsic parameter) for both cameras (left and right) were given, how would you rectify one of the images in order to obtain a pair of rectified images? Describe the equations and necessary steps of the algorithm.