1. (Perspective Rectification) Warp the basketball court from this image to a new image so that it appears as if the new image was taken from directly above.



For Python users, Perspective Transformation codes in OpenCV can be found:

<https://www.geeksforgeeks.org/perspective-transformation-python-opencv/>

1. Repeat the homogeneous camera calibration exercise of Sect. 11.2.1. Investigate the effect of the number of calibration points, and noise on the calibration residual.

This part is a repeat of MATLAB code in textbook, there is no easy replacement for Python, I would recommend you use MATLAB for this problem