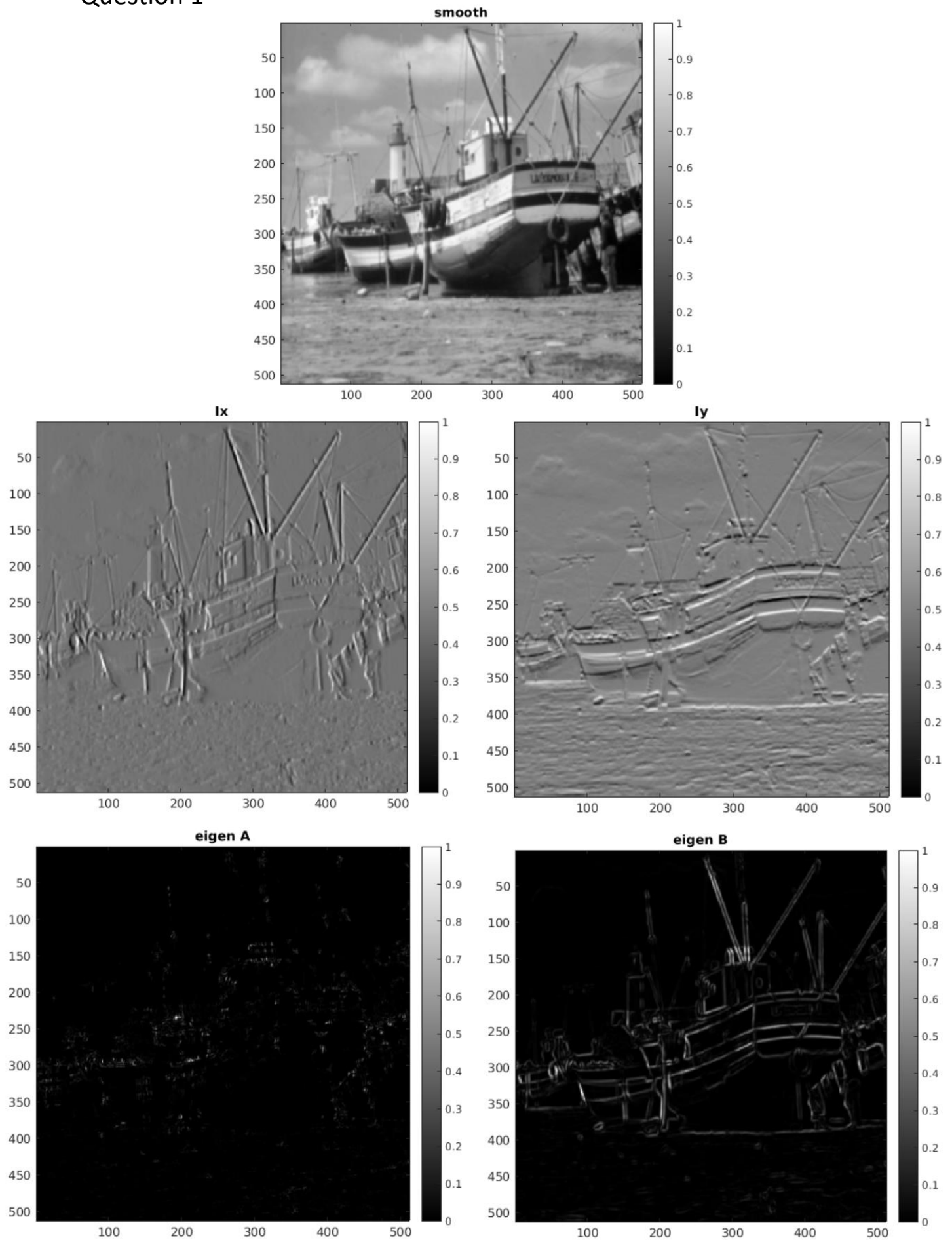
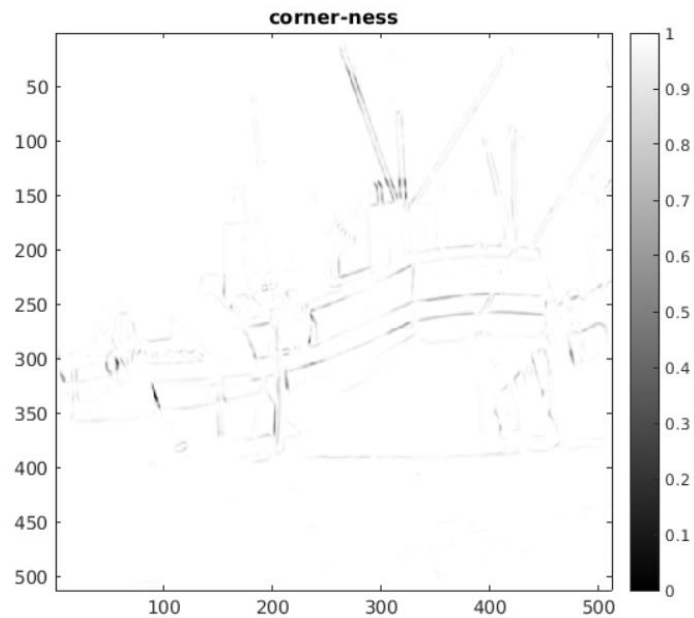


Assignment 3

Question 1





First image is Gaussian smoothed with window size 10 pixels and with parameter h_1 as 0.2

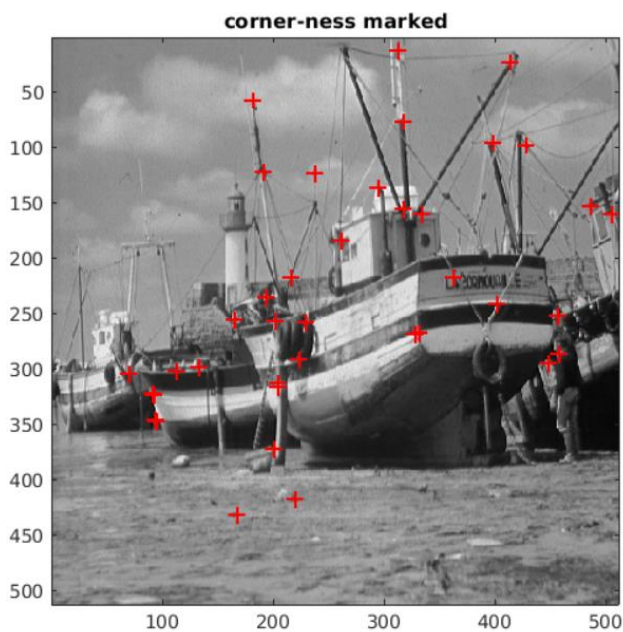
Next two images are image derivatives along x and y directions.

Then next two are heat maps of eigen values of structure tensor. This tensor uses gaussian mask of window size 3 and parameter h_2 as 0.7 for isotropicity.

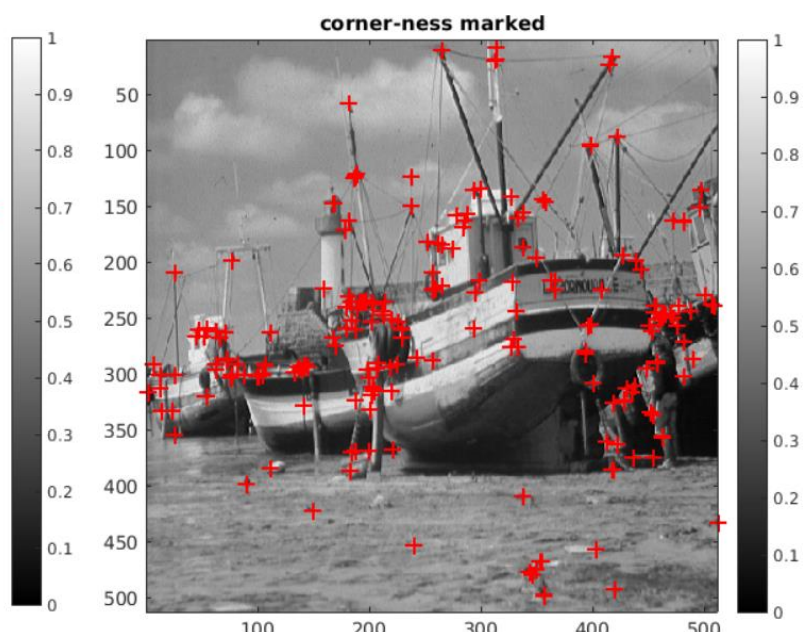
Next is heatmap of corner-ness values. Parameter k is 0.244

Finally I have marked all identified corners (corner-ness > 0) with red crosses on image. It can be seen some mast pole's corner far away are missed.

If however, I try to include them by changing parameters, other edges and weird corners come up in image as can be seen below.



Final Image



Badly tuned (window= 5, $h_1=0.25$, $h_2=0.9$, $k=0.245$)