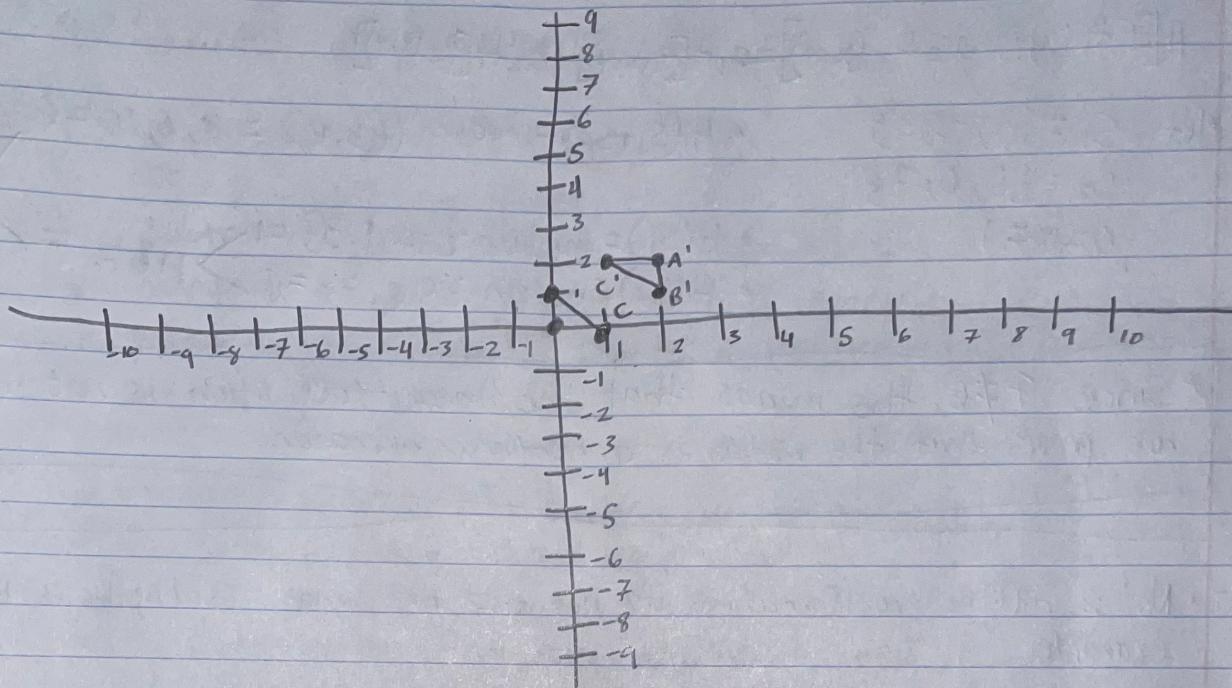


CSE 107 - HW #3

3-



4. a) • intensity of 0 to 255

- The intensity of a pixel must be in the range of 0 to 255. Furthermore, the condition to be able to calculate the histogram to the image k is $k(x,y) = f(x,y) + g(x,y) \leq 255$. For the intensity value to be greater than 255, the intensity should be rounded to 255 then. Only the histogram can be determined for the image $k(x,y)$.

b) • To calculate hk in terms of hf and hg the 2 images must be the same, then there we can determine the histogram.

if $i+i <= 255$

$$hk(i,i) = hf(i) + hg(i)$$

else

$$hk(255) = hk(255 + hf(i) + hg(i))$$