- 21. Hy is using madrice learning
 - faster-ronn is using deep learning
 - Hog is hand engineered with no learning.
 - Renn is using supervised deeplearning models,

flattening the commulative frequency & distribution, where the number of pixel in each intensity level is distributed close to equal which could be mistaken as a fattening process.

23) G(4N)=(2e°-e^{2TijM}-e^{2TijM}) F(UV) = 2-e^{2TijM}-e^{2TijM}

G(u,v)=H(u,v) F(u,v) H(u,v)=2-e2tith_e2Tith

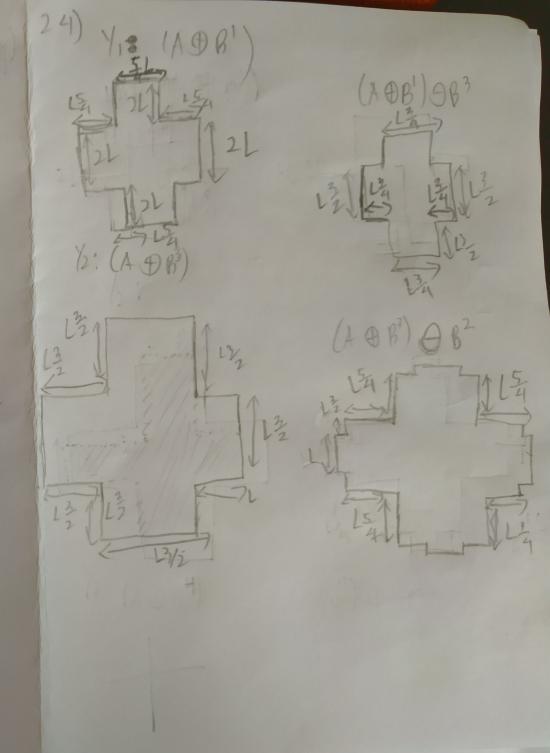
The range goes from O to 1

and we can see that the applitude

of the Filter increases as a function

of distance from the Origin, similar

to high pass characters thes.



b)

9 = 0/s/ten (2)+90)=152412

$$27) \omega_{b} = \frac{b}{6t4+2t8} = 0.3$$

$$y_{b} = \frac{0.3}{6} = 0$$

$$6b^{2} = 0$$

$$\omega_{f} = \frac{14}{20} = 0.7$$

$$y_{f} = \frac{14202+30}{14} = 2.286$$

$$66^{2} = \frac{(1-209)\times4+6-3.29\times243-229\times8}{14}$$

$$= 9.776$$

28)
$$y_{x_1} = \begin{vmatrix} 3 \\ 4 \end{vmatrix}$$
 $y_{x_2} = \begin{vmatrix} 4 \\ -1 \end{vmatrix}$ $y_{x_3} = \begin{vmatrix} 1 \\ -1 \end{vmatrix}$ $y_{x_4} = \begin{vmatrix} 1 \\ -1 \end{vmatrix}$ $y_{x_5} = \begin{vmatrix} -2 \\ 1 \end{vmatrix}$ $y_{x_5} = \begin{vmatrix} 1 \\ 3 \end{vmatrix}$ $y_{x_5} = \begin{vmatrix} 3 \\ 4 \end{vmatrix}$ $y_{x_5} =$

- a) I matches &
 - It is using a low frequency filter
 - 2 matches C
 - Using a high frequency filter

3 natches A

- Using band pass filter
- 6) cut the inge to 4 equal parts
 - Use gaussian hour on top left,
 sharping on top right, carny or edge filter
 on bottom left, and topped on bottom right
 smoothing

c) I matches C

- toucontrast image has narrow and centred his togram to the middle,
 - 2 matches p
 - Histogram is more equalized and has high contrast to conver a broad grayscale.

3 matches A

- Bright images has values concentrated on high side of the gray scale.

4 matches B

- Park images concentrate on the low side of the gray scale