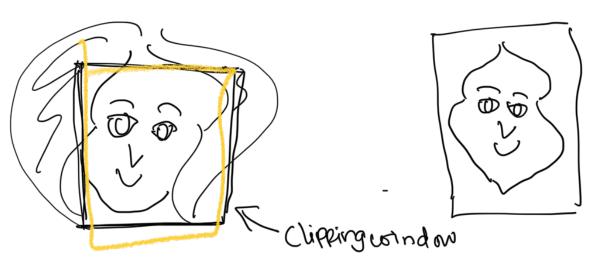
CSF 423 Week 3 Clipping.

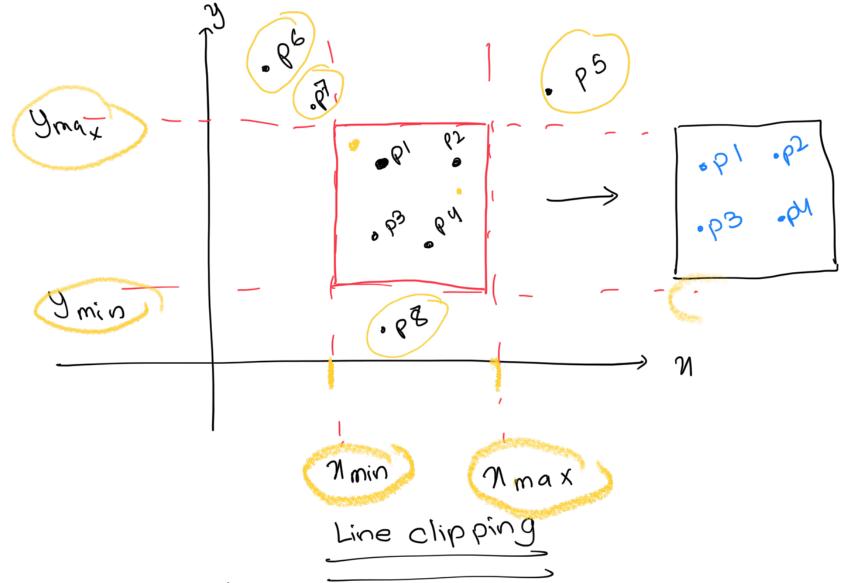


discooling

Apoint (n,g) is not clipped is:

→ Xmin ≤ n ≤ Xmax AND

>> Ymin < y < ymax



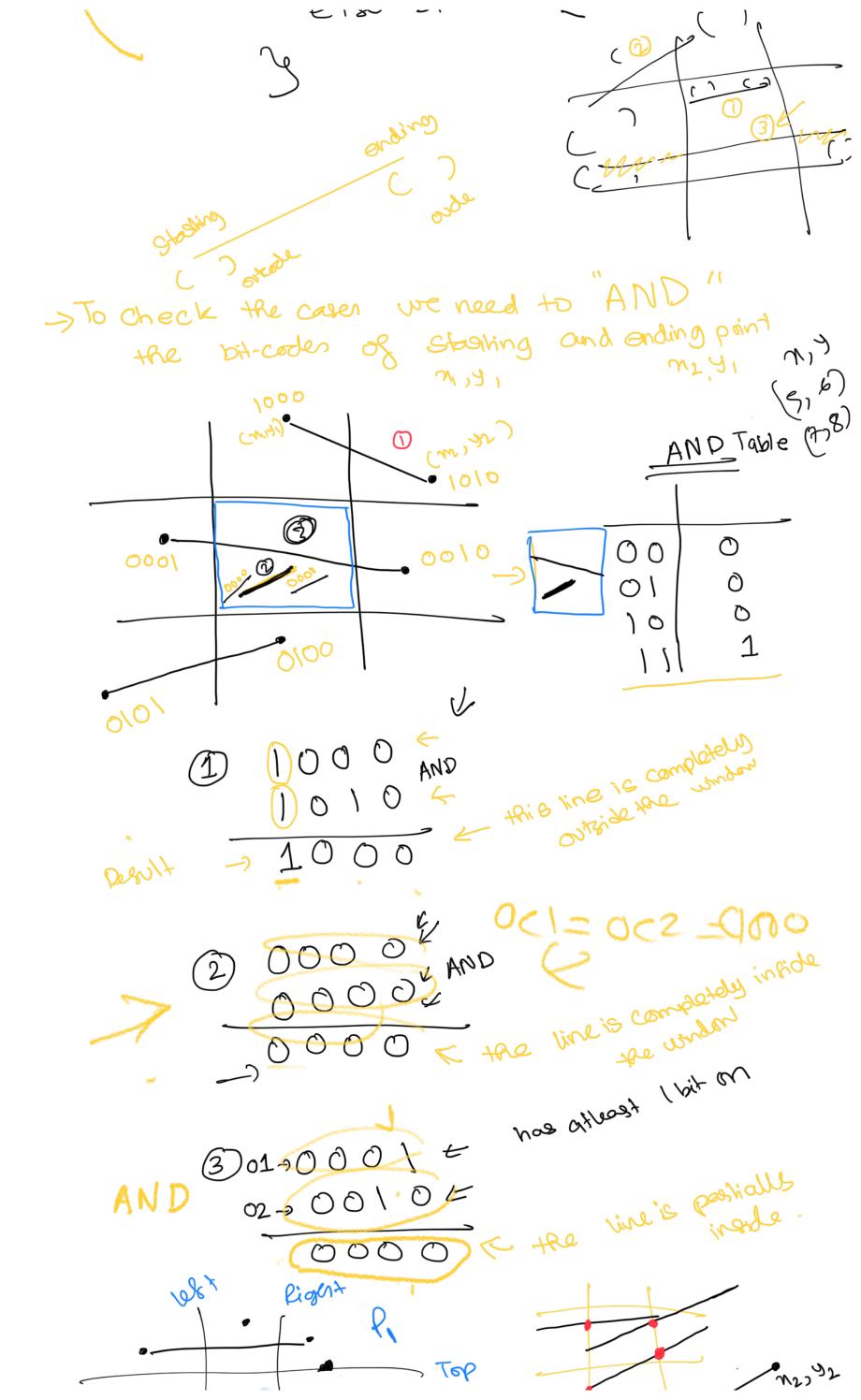
2 dipinondan 9 max 250 00 er 150 00 er 1

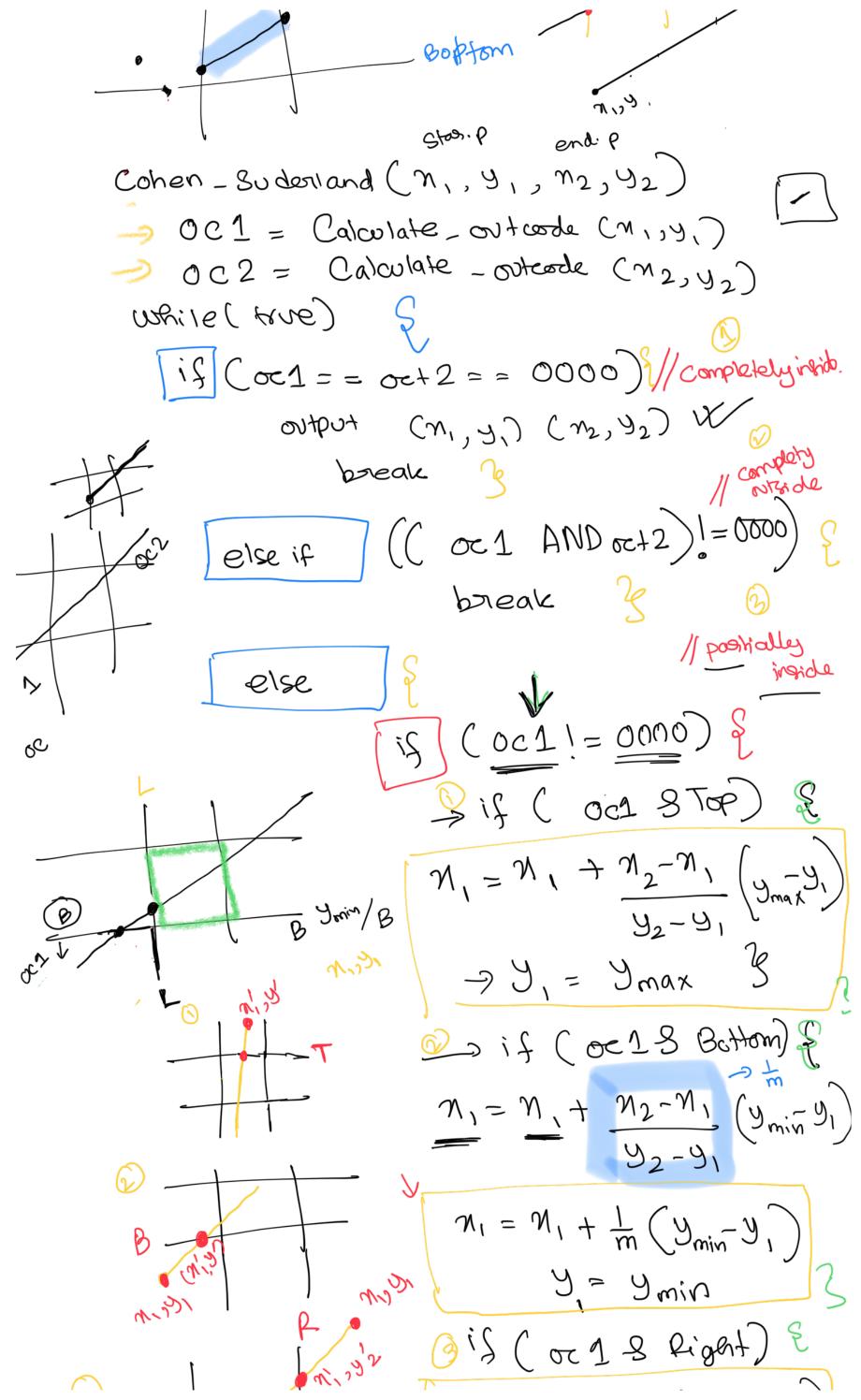
PG.

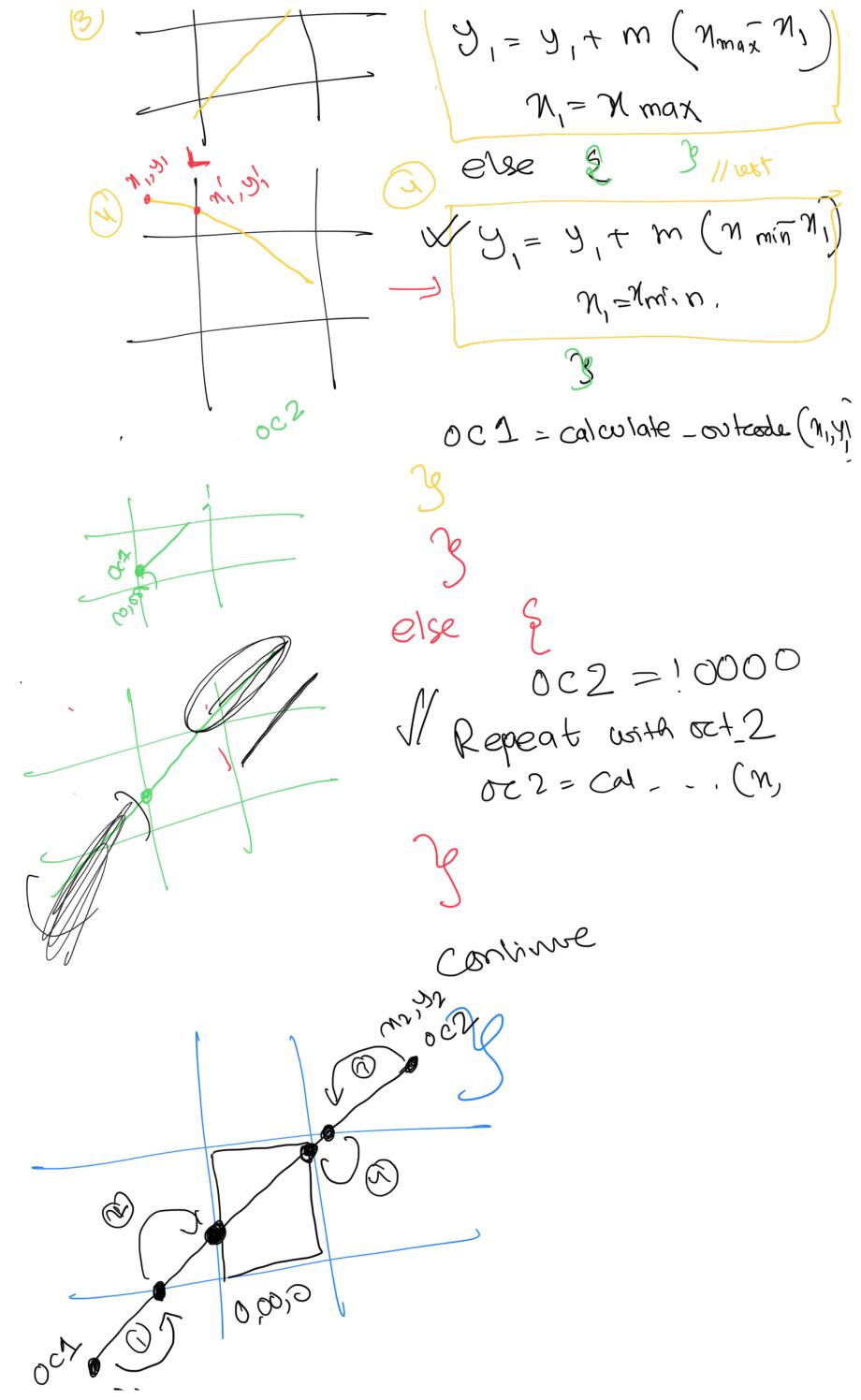
PS

Xmax

Xmin 3 Cases: Completely inside line completely outside line positially inside find where the coordinates one githerted pregions are denoted with bit-code 1000 outcale. Top bottom roight left 1901 1010 V /TOP Con dilitare : 0000 <-Top/Ymax 19>_Bottom/Ymin window 0010 0001 M Jins >=left / xmin 0110 BOHOW <= right X max 0100 0101 Xmin/left Calculate _ outcode (N,y) ? if (N >= N min) bit0 = 0 1001 else bit0 = 1 e W O = 1 fid CxamX=> N) fi Ovtrada = 100/ else bit 1 = 1 (y >= ymin) bit 2 = 0 0c1=() else bit 2 = 1(y=< ymax) bi+3 = 0 0100 bit 3 = 1







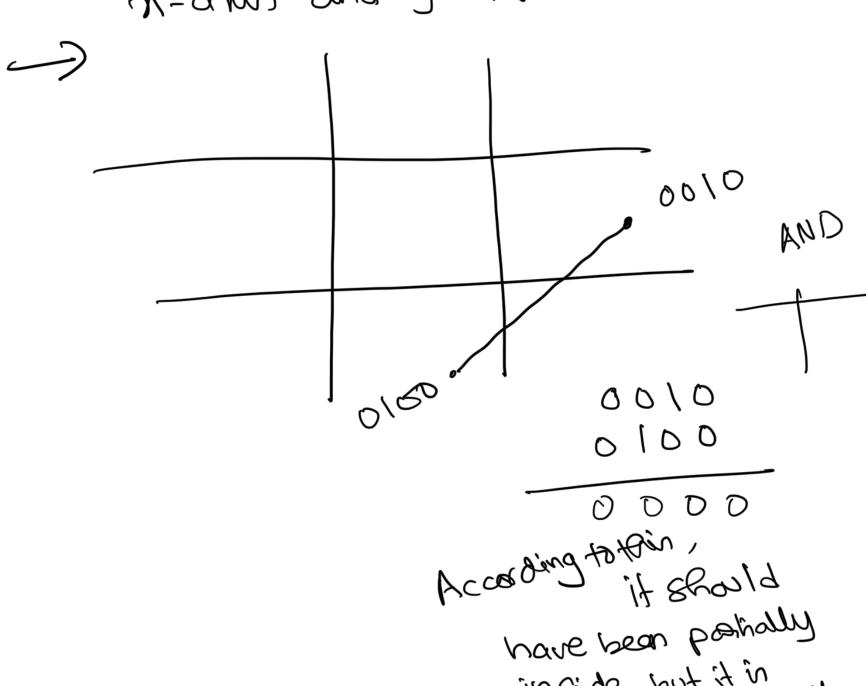
The state of the s

Mmax Smax Example Nowin Sura 0) to (300,200). Wo briw (-250, 20) to (250, -200)7/2 , 92 M, , 9, points - (-250,200) $N_1 = 250$, $y_1 = 200$, $N_2 = 250$, $y_2 = -200$ 200 //outcode calculation oct 1 =0001 AND 1000 oct 2 = 0/00 0/00 00004 (250, 200) Pools ally inside $y_1 = y_1 + w(y_1 - y_1)$ $y_2 = y_2$ $y_3 = y_4$ $y_4 = y_5$ $y_5 = y_6$

 $=200 + -200 - (208) \left(0 - (-250)\right)$ 250 - (-250)

Drawbacks of Cohen Suderland

- -> Clipping window has to be rectangular in shape & no other polygon shapes.
 - _) Edges of rectangular shaped chipping window has to be possabled to n-anin and y-amin



have been postably
inside but it in
completely inside.
Completely inside.