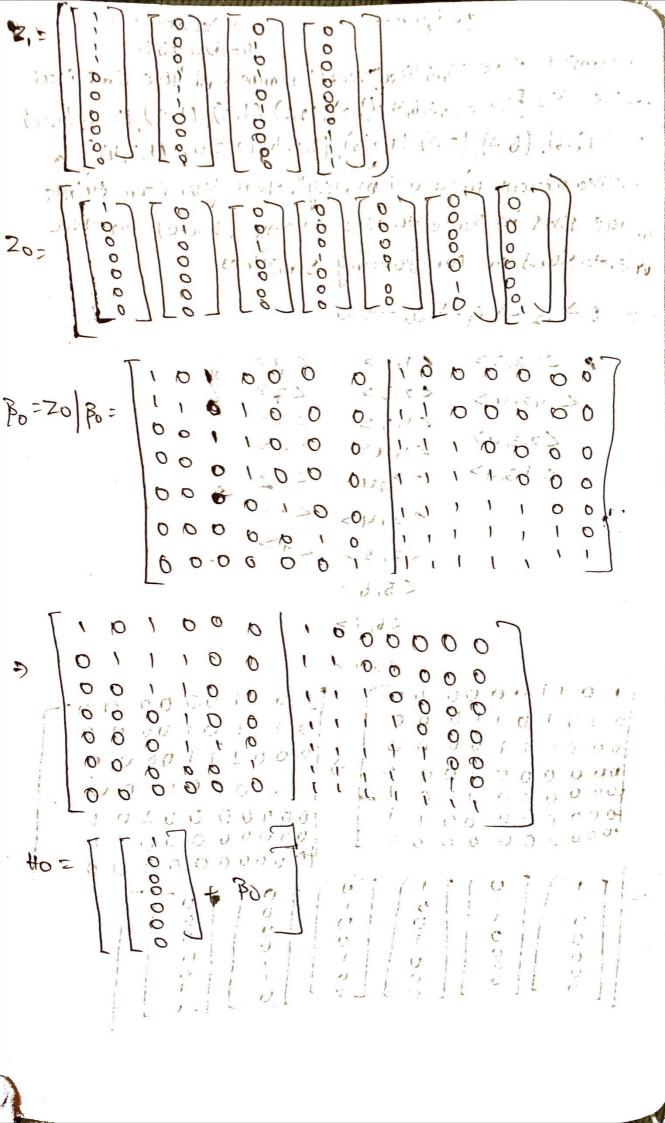
Assignment OT Dang 3D or Daneety Reddy! Will compute the simplical Betti numbers of the simplical complex K= [12,3,4,5,6,7,(1,2),(2,3),(1,3),(1,4),(3,4),(2,4) (2,5),(5,6),(6,7),(5,7),(1,2,3),(1,2,4),(2,3,4),(1,3,4),( a zipped up tent with a tom flag". Here you can think of the wats in Parentueses as my chocies for the orientations of corresponding simplices. 河: 0 对际对码对应3 631 2 612.33 n £1,27 €2,83 21/35 KILLY < Bruz (2,5) ついのいらうる! 0 0 0 85A7 1 0 00 1000 000000 000000 600000 00 4000000 £000000000 0-000000



Betti number

$$\beta_{0}=1$$
  $\beta_{2}=1$ 

in dimensions of 1 only (!) for the RiPs complex filtration built from a finite set of points in RiPs complex filtration huilt from a finite set of points in RiPs complex we choose in Risthet the taxi-cab metric. For this por oblem doing the careful matching analysis of the birthet & deerthet the careful matching analysis of the birthet & deerthet is not necessary since they can be observed from a sketch. You will need to compute homology of each stage in the filtration, then relate the homology compotations via maps induced by inclusions.

There is the sets of points: [0,0], [1,0], [0,1], [1,1], [0,5], [5,5], [5,0].

There is the sets of points: [0,0], [1,0], [0,1], [5,5], [5,0].

1 1 1 (0) (1) 2 3 4 5 (0) X

(0,0) (10) (110) 2 (201) (5,5) ((50)) (10) (0.1) (0.0) critical dim