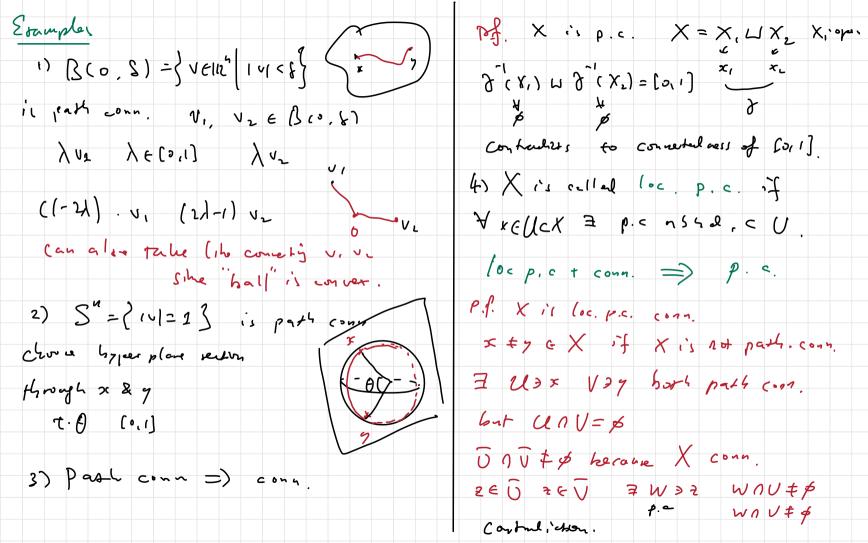
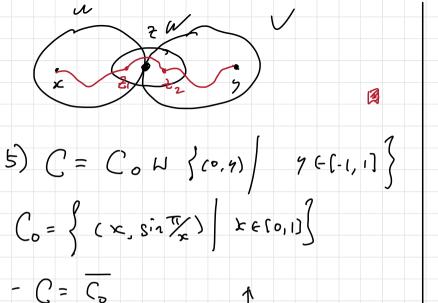
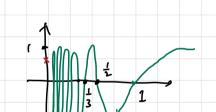


Defin X space. A max conn. subspace Defin X i's loc. com. of XXEX every open usual of x contains a of X i's called a com. component Coun open usud. properties 1) X, X, are but conn. component D2 × 12 constant a Prones.! of X. Hen eighter x1=X2 or x10x2=\$ 2) YxeX ] conn. componet contally x. Etamples 1) So] u S = [4 EN] 3) All conn. component ( one closed. is not loc com. X: \( \times \times \). \( \times \) \( \tim 2) { 9 ( n = W } 1 Le conn. 4) if X has fritte y may con . compounts  $\frac{1}{4} \in \left(\frac{1}{44}, \frac{1}{44}\right)$ 3)  $(1R^{2} + 1)$ ;  $2 \cdot \cdot \cdot \cdot \cdot \cdot$ the components are open. E. J Q C (1P. 1-1) Defin X is called parts - cons. of every pt in Q i's conn. component. Y x. 96 X 3 8: [0,1] → X but not discoute. \(\gamma\) = >< \(\chi(\in) = \chi.







(0, yo) coesn't have p.c. asid.

- Co is path con,

50 C [-1, 1]