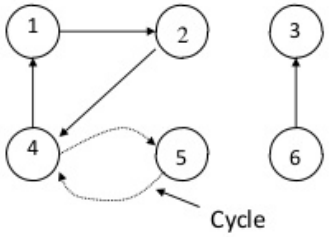
Cycle

- A path from a vertex to itself is called a ***cycle***.
- A graph is called ***cyclic*** if it contains a cycle;
  - otherwise it is called ***acyclic***



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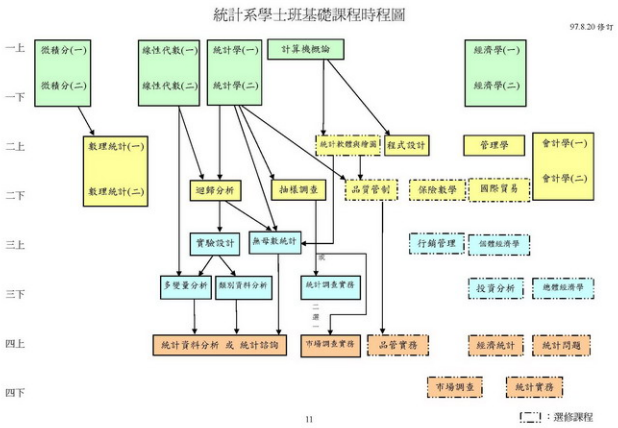
1. Directed Acyclic Cycle :
   example : 大學課程地圖，修完一門課程後往接續的課程邁進，但修過的課程不會被再次修到。
   measure technique : 可以在不同系網站得到



2. Cyclic directed network :
   example : 中醫五行圖
   empirical technique : 經由病人五行的狀況得到資料，利用資料去維持五行的平衡

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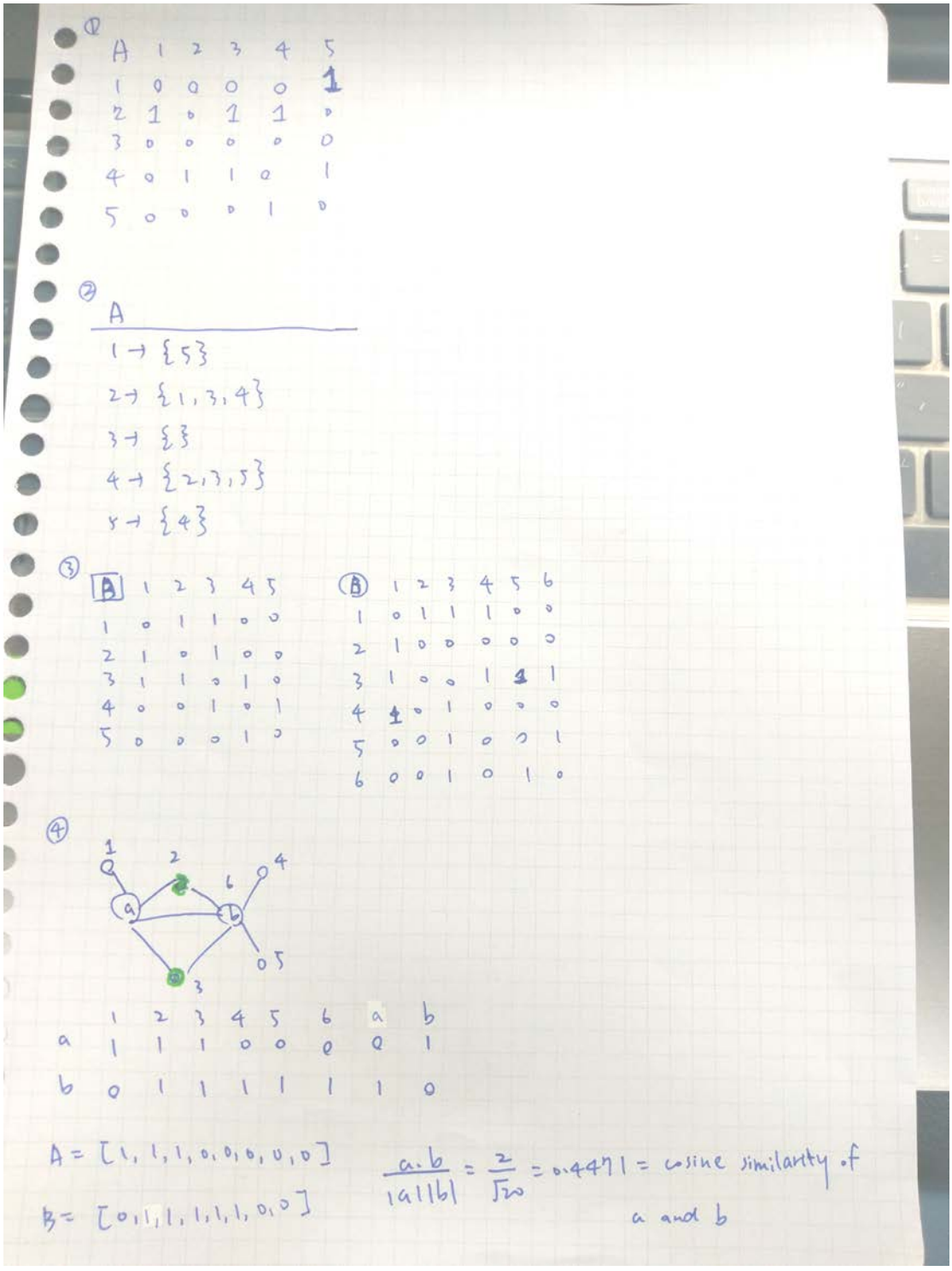
3. A tree
   example： 生物演化圖
   empirical technique： 生命科學實驗室透過基因資料判斷演化圖與分支依據

4. A planar network
   example： 北京環狀都市規劃圖
   empirical technique : measure everyday flows of commuters in the city of 北京 and find out how different cities connect.

5. A bipartite network
   example : shopping items and stores
   you may want to get a loaf of bread, milk, a T-shirt, a music album, and a chocolate bar. Bread , milk , and chocolate bar may be found in 7-11. All of the items may be found in Target. Music album itself may be found in a music store. T-shirt are sold in a shop…etc.

   empirical technique: from data collected by Walmart and Target … , we can look through the data and manage the placement of the items in the store.

6. A temporal network
   example : a network of real life friendship
   empirical technique : We can observe the interaction of different groups of students regularly.



Collabs : 池富湧 **& 2 TAs**