

f.	adjoining:
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	1	2	3	4	5
1	0	1	0	0	0
2	1	0	0	0	0
3	0	0	0	0	1
4	0	0	1	0	0
5	0	0	1	1	0

g) no paths from 1 to 3.

h) graph C: 2 sets of independent systems

Transition matrix:

$$\begin{bmatrix} 0 & 1 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & \frac{1}{2} & 0 & 0 \\ 0 & 0 & \frac{1}{2} & 1 & 0 \end{bmatrix} \begin{bmatrix} \vec{v} \end{bmatrix} = \begin{bmatrix} \vec{v} \end{bmatrix}$$

6. Study group.

~~my~~ I worked on this with my
froomates Mizhael Huang (SID: I can't be bothered so my)
and Anand Cheendra (SID: " " " ")

We did problems 3 & 4 together & helped each other learn; it was pretty productive, actually.