Suppose that in a particular quarter there are students taking each of the following combinations of courses:

1t. 1) Math, English, Biology

14.2) • Math, French, Computer Science

3\\ Biology, Computer Science, History

1t. 4 Biology, Psychology

What is the minimum number of examination periods required for the exams in the seven courses specified so that students taking any of the given combinations of courses have no conflicts? Find a schedule that uses this minimum number of periods.

Define the graph following nodes - classes arc i-j -> if a student take, both classes i and j (e.g., there is an arc M—E) because student 1 takes both Math and English) colors - exam periods Drawing the graph defined above and coloring it: (numbers represent colors)
3 exam periods are needed: period