**DAY 5: Vertex Coloring & Scheduling** Name: \_\_\_\_\_Key\_\_\_\_\_\_\_

1. Correctly color the vertices of the graphs below.

 One possible solution

1. How can we schedule classes so that each student can take the courses that they need?

|  |  |
| --- | --- |
| Student | Classes Needed |
| April | Math III, PE, and Literature |
| John | Math III, World History, and Literature |
| Faith | World History, Literature, and Chemistry |
| Susan | Chemistry, World History, and Math III |
| Robert | Math III, Literature, and Art |

Create a graph that represents the table above and then solve the scheduling dilemma.

One possible solution



PE, Chemistry, and Art can be scheduled at the same time. While Math III, Literature, and World History need to have their own time slots.