

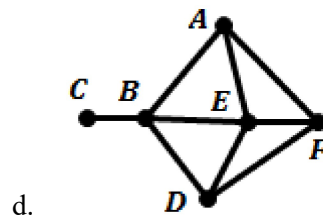
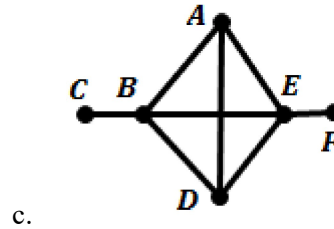
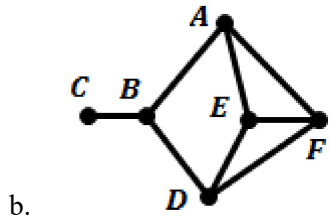
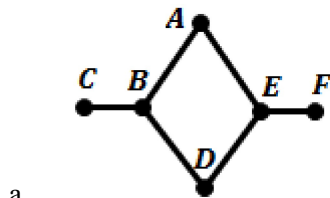
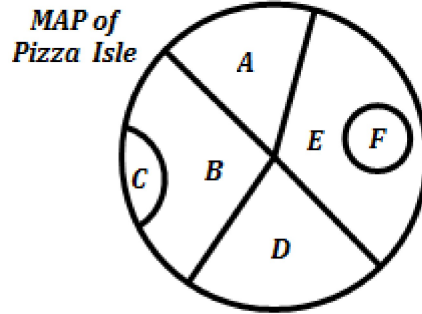
Section 06-05 - Sample Quiz - Chromatic Numbers

Multiple Choice

Identify the choice that best completes the statement or answers the question.

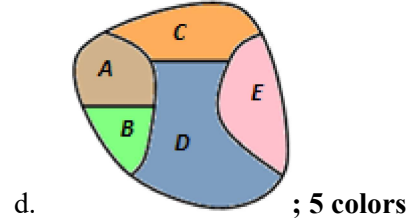
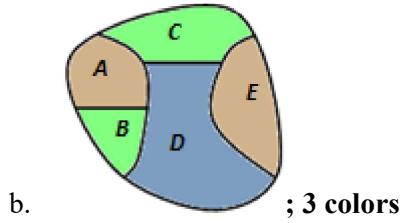
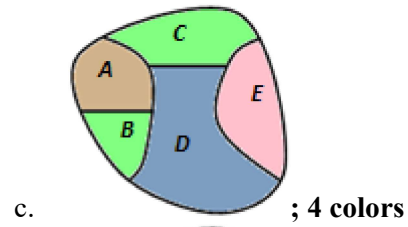
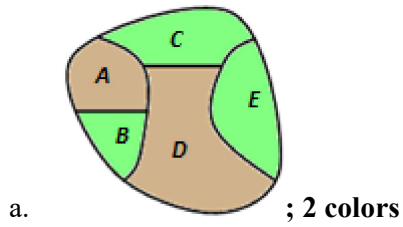
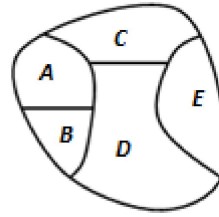
1. **Chromatic Numbers**

Which graph below represents the map shown at the right (i.e. any adjacent regions in the map should correspond to adjacent vertices in the graph)?



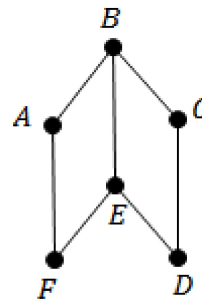
2. **Chromatic Numbers**

Use graph coloring to find the minimum number of colors needed to color the graph without adjacent regions being the same color.



3. **Chromatic Numbers**

Use graph coloring to find the minimum number of colors needed to color the graph.



- a. 2
- b. 3

- c. 4
- d. 5

4. **Chromatic Numbers**

Which graph below uses the correct number of minimum colors to determine the chromatic number of the graph?

