

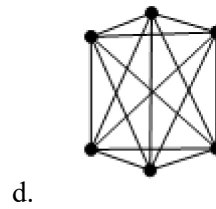
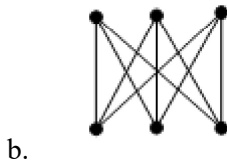
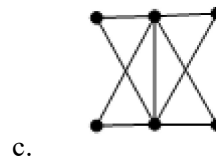
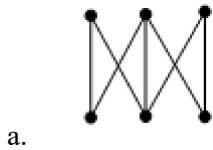
### Section 06-07 - Sample Quiz - Planar Graphs

#### Multiple Choice

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

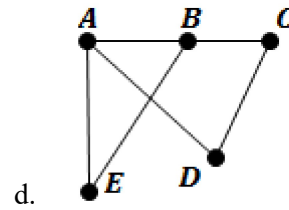
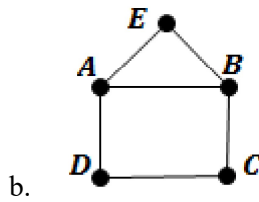
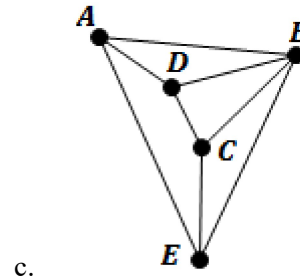
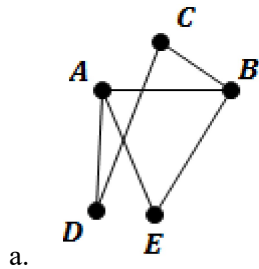
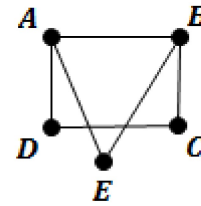
- \_\_\_\_\_ 1. **Planar Graphs**  
What best describes the Chromatic Number of a **Planar Graph**?
- a. Always Exactly 2
  - b. Always Exactly 3
  - c. 4 or less
  - d. 5 or more

- \_\_\_\_\_ 2. **Planar Graphs**  
Which graph depicts just a  $K_{3,3}$ ?



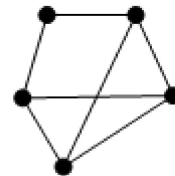
3. **Planar Graphs**

Which graph is equivalent to the one shown at the right and proves that the graph is PLANAR? (i.e. in a configuration that shows it is planar graph)



4. **Planar Graphs**

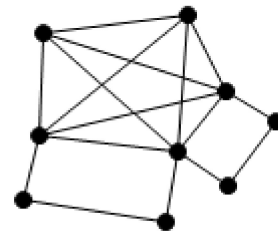
Is the graph at the right planar?



- a. Yes!
- b. No. It is not because it contains a  $K_5$  subgraph.
- c. No. It is not because it contains a  $K_{3,3}$  subgraph.

5. **Planar Graphs**

Is the graph at the right planar?



- a. Yes!
- b. No. It is not because it contains a  $K_5$  subgraph.
- c. No. It is not because it contains a  $K_{3,3}$  subgraph.