

Last name \_\_\_\_\_

First name \_\_\_\_\_

LARSON—MATH 356—CLASSROOM WORKSHEET 16  
Chromatic Number, Bipartite Graphs, Tarjan-Trojanowski

Review

- (Claim:) A connected graph has an Eulerian circuit if and only if every vertex has even degree.
  - What is a *coloring* of a graph? What is a *proper coloring*?
1. What is the *chromatic number*  $\chi(G)$  of a graph  $G$ ?

2. What is a *bipartite graph*?

3. Why are trees bipartite?

4. What is the Tarjan-Trojanowski algorithm for finding a maximum independent set in a graph?