

1. (1 pt.)

- This *quick check* is **closed book, notes, etc.**
- You may use a 3 in. \times 5 in. **reference card**, *hand-written by you*.
- Use the **classroom and textbook conventions** and terminology.

Read the above carefully; then write your name below:

2. (2 pts.) What is the difference between *sparse* and *dense* graphs?

3. (2 pts.) State the names of the four types of edges in the classification created by depth-first search.

4. (2 pts.) In the textbook's pseudocode notation, what does $G.Adj[u]$ denote?

5. (3 pts.) The BFS algorithm uses three colors for vertices. What are the colors and what is their significance?