1. (1 pt.)

   - This *quick check* is **closed book, notes, etc.**
   - You may use a 3 in. × 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?