

1. (1 pt.)

- This *quick check* is **closed book, notes, etc.**
- Use the **classroom and textbook conventions** and terminology.

Read the above carefully; then write your name below:

Then complete the following statements as precisely as possible, in the context of graphs as described by the textbook.

2. (1 pts.) Vertex u is said to be *adjacent to* vertex v if [define] ...

3. (2 pts.) A *path* is [define] ...

4. (2 pts.) The *weighted path length* of a path is [define] ...

5. (2 pts.) A *cycle* in a directed graph is [define] ...

6. (1 pts.) A popular data structure for representing graphs is [name] ...

7. (1 pts.) A graph-search method that processes vertices in layers, visiting vertices closer to the start before those farther away, is [name] ...