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- 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. (3 pts.) Provide the textbook's definition of a system of difference constraints.

3. (3 pts.) Complete the following statement of Lemma 24.8 from the textbook, about solutions to systems of difference constraints:

Let $x = (x_1, x_2, ..., x_n)$ be a solution to a system $Ax \le b$ of difference constraints, and let d be any constant. Then ...

4. (3 pts.) State the theorem relating systems of difference constraints to a shortest-paths problem.