

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:

2. (4 pts.) Provide a closed-form (no summation, etc.) function f that satisfies the following equality. Justify your answer iff you wish to qualify for partial credit.

$$\sum_{i=1}^N \frac{1}{i} = \Theta(f(N))$$

3. (5 pts.) Define the *static searching* problem. [You do not need to reproduce the textbook's definition verbatim, though you may. However, your definition must be equivalent to it, and precise.]