

CSE 103

Discrete Mathematics

Assignment

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CHAPTER: 01

SECTION: 01

EXERCISE NO: 02

QUESTION:

Which of these are propositions? What are the truth values of those that are propositions?

- a) Do not pass go.
- b) What time is it?
- c) There are no black flies in Maine.
- d) $4 + x = 5$.
- e) The moon is made of green cheese.
- f) $2n \geq 100$.

SOLUTION:

- a) **This is not a proposition.** (As it does not assert anything)
- b) **This is not a proposition.** (It's a question.)
- c) **False.** (There are black flies in Maine.)
- d) **This is not a proposition.** (As the truth value depends on variable x)
- e) **False** (The moon is not made of green cheese.)
- f) **This is not a proposition.** (As the truth value depends on variable n)