

CHAPTER 01

Section 1.1, Exercise 1:

Questions:

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

- a) Boston is the capital of Massachusetts.
- b) Miami is the capital of Florida.
- c) $2 + 3 = 5$.
- d) $5 + 7 = 10$.
- e) $x + 2 = 11$.
- f) Answer this questions.

Solution:

- a) A true proposition.
- b) A false proposition.
- c) A true proposition.
- d) A false proposition.
- e) This is not a proposition. (As the truth value depend on variable x)
- f) This is not a proposition. (As it does not assert anything)