

Team Identification Block

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Course: CMSC 2123 – Discrete Structures
Assignment: a01
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Scoring block			
Exercise	Maximum	Earned	Explanation
1	1	1	
2	1	1	
3	1	1	
4	1	1	
Total	4	4	

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

- Boston is the capital of Massachusetts.
- Miami is the capital of Florida.
- $2 + 3 = 5$
- $5 + 7 = 10$
- $x + 2 = 11$
- Answer this question.

Answer:

Question	Proposition	Truth Value	Explanation
a	Yes	T	The proposition is a statement of fact that can be tested.
b	Yes	F	The proposition is a statement of fact that can be tested.
c	Yes	T	The proposition is an arithmetic identity that can be tested.
d	Yes	F	The proposition is an arithmetic identity that can be tested.
e	No		The equation has infinitely many solutions that are true and infinitely many solutions that are false. A proposition can have only one truth value.
f	No		The proposition is a command and has no truth value.