

Team Identification Block

Author 1: Ms. Fiona Faultless
Student ID: *00000001
E-Mail: ffaultless@uco.edu
CRN: 11128 Autumn 2019
Author 2: Ms. Petunia Perfect
Student ID: *00000000
E-Mail: pperfect@uco.edu
CRN: 12234 Autumn 2019
Course: CMSC 2123 – Discrete Structures
Assignment: a01
Due: January 15, 2014

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?
- 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 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.