CSE 103:
DISCRETE MATHEMATICS

STUDENT ID: 1705072

CHAP NO: 01

SECTION NO: 01

EXERCISE NO: 42

VERIFICATION STD ID: 1705027

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QUESTION:

What is the value of *x* after each of these statements is encountered in a computer program, if *x* = 1 before the statement is reached?

a) if *x* + 2 = 3 then *x* := *x* + 1

b) if (*x* + 1 = 3*) OR* (2*x* + 2 = 3) then *x* := *x* + 1

c) if *(*2*x* + 3 = 5*) AND (*3*x* + 4 = 7*)* then *x* := *x* + 1

d) if *(x* + 1 = 2*) XOR (x* + 2 = 3*)* then *x* := *x* + 1

e) if *x* < 2 then *x* := *x* +1

ANSWER:

a) 2
b) 1
c) 2
d) 1
e) 2

If the hypothesis is true, then the conclusion results in x=2

If the hypothesis is false, then the conclusion is invalid and the answer can be said is x=1