CSE103 ASSIGNMENT

Discrete Mathematics 1.1

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Problme 18:

Determine whether each of this conditional statement is true or false:

1. If 1 + 1 = 3, then Unicorns exist.

2. If 1 + 1 = 3, then dogs can ﬂy.

3. If 1 + 1 = 2 ,then dogs can ﬂy.

4. If 2 + 2 = 4, then 1 + 2 = 3.

Answer:

1.According to conditional statements if the hypothesis is false,then the whole statement would be true.Here 1+1!=3 ,so the statement is true.

2.Again,hypothesis “1+1=3" is false.So,the conditional statement is true.

3.Here,Hypothesis-1+1=2 ,is true.But the conclusion is false.We know,if the hypothesis is true,but the conclusion is false then the statement is false.So,it is false.

4.In this one ,the conclusion is true,so from the definition of a conditional statement it is true(the truth value of the hypothesis does not matter if the conclusion is true).