Assignment on CSE 103 : Discrete Mathematics

Sihat Afnan
Student ID:1705098
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Discrete Mathematics and its Application by Kenneth Rosen
chapter 1
Section 1.1,problem 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. We know that $1 + 1! = 3$.So,on a conditional statement p-¿q,if p is false then the statement is true regardless of the truth value of q.
   So it is true.
2. We know that $1 + 1! = 3$.So,on a conditional statement p-¿q,if p is false then the statement is true regardless of the truth value of q.
   So it is true.
3. We know that $1 + 1 = 2$.So p is true here.But the second statement isn't.
   So the statement isn't true
4. We know that $2 + 2 = 4$ and $1 + 2 = 3$.So both are true.
   So the statement is true.