Answer on Question #74713, Math / Discrete Mathematics Q: Determine whether these biconditionals are true or false. Biconditional Truth Table

a) 2 + 2 = 4 if and only if 1 + 1 = 2. True: both statements are true.

b) 1 + 1 = 2 if and only if 2 + 3 = 4. False: first statement is true, but second statement is false, making everything false.

c) 1 + 1 = 3 if and only if monkeys can fly.

True: first statement is false and the second statement is also false, consequently making the biconditional true.

d) 0 > 1 if and only if 2 > 1.

False: first statement is false, but second statement is true, making everything false.

р	q	$p \leftrightarrow q$
Т	Т	Т
Т	F	F
F	F	Т
F	Т	F

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