1. (2pts) Decide (with reasons) if this a valid arguments: If people are crazy, then they should be in an asylum. I am in an asylum. Therefore I am crazy. It is not valid, if they gave you a you get A but not the other way around. You could be in an asylum + not be crazy, you could nort there.

2 (Anta) Has a proof acquered to show that this argument is ralid.

1. (2pts) Decide (with reasons) if this a valid arguments:

If people are crazy, then they should be in an asylum. I am in an asylum. Therefore I am crazy.

The argument is not valid.

While crarry people should be in an asylum, being in an asylum does not imply
craziness

You could just be the join iter at the asylumi!

And the janitor isn't cruzy,

Unless bais un

1. (2pts) Decide (with reasons) if this a valid arguments: If people are crazy, then they should be in an asylum. I am in an asylum. Therefore I am crazy. $(L \rightarrow A) \land A$ This cannot be proven true. The statement CAA can still be true if A is true and C is false. Therefore, A being true doesn't say anything menningful about 6.

Well done!

1. (2pts) Decide (with reasons) if this a valid arguments:

If people are crazy, then they should be in an asylum. I am in an asylum. Therefore I am crazy.

1. (-> A 2. A hyp
X3. C Not valid
This is not logically valid, as the consequent of the implication being true does not say anything about the contratation antecedent.

1. (2pts) Decide (with reasons) if this a valid arguments:

If people are crazy, then they should be in an asylum. I am in an asylum. Therefore I am crazy.

This is an invalid argument, because the statement only argues

that all crazy people should be in an asylum. It does not state that everyone in an asylum is crazy. Moreover, there is nothing stating what people are in an asylum, but only what people should be in one. There might be people who should be

in one but arent, and vice versa.

MAT385 Quiz 02, Spring 2023

Name: Joellian

(PAA). AP 4> (P->A). AA

2. (4pts) Use a proof sequence to show that this argument is valid:

 $(A' \rightarrow B') \wedge B \wedge (A \rightarrow C) \rightarrow C$ 1. $A' \rightarrow B'$ hyp

2. B hyp

3. $A \rightarrow C$ hyp

4. $B \rightarrow A$ 1. (ontro

2. $A \rightarrow C$ mp

5. $A \rightarrow C$ 3.5 mp

1. (2pts) Decide (with reasons) if this a valid arguments: $(C \rightarrow A) \land A \rightarrow C$

If people are crazy, then they should be in an asylum. I am in an asylum. Therefore I am crazy.

No, I don't think that this is a valid argument. The fact that you are in an asylum does not necessarily

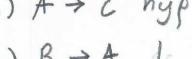
mean you are crazy. There could be other conditions and that might warrant being placed in an asylum other than being crazy, so I wouldn't assume that you are crazy, even if it is a possibility. Given the two statements, I could prove the conclusion if the first implication was reversed, but I can't prove the following wff: (CANDAA-C.

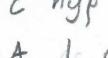
$$(A' \to B') \land B \land (A \to C) \to C$$

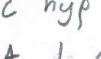
$$(II \cap B) \cap B \cap (II \cap C) \cap C$$

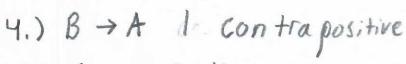
2. (4pts) Use a proof sequence to show that this argument is valid:

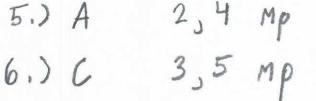
 $(A' \to B') \land B \land (A \to C) \to C$











2. (4pts) Use a proof sequence to show that this argument is valid:

$$(A' \to B') \land B \land (A \to C) \to C$$

(500 d

1,2, mt

If the ad is successful, then the sales volume will go up. Either the ad is successful or the store will close. The sales volume will not go up. Therefore the store will close.

- A the ad is successful
- S sales volume will go up
- C the store will close

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