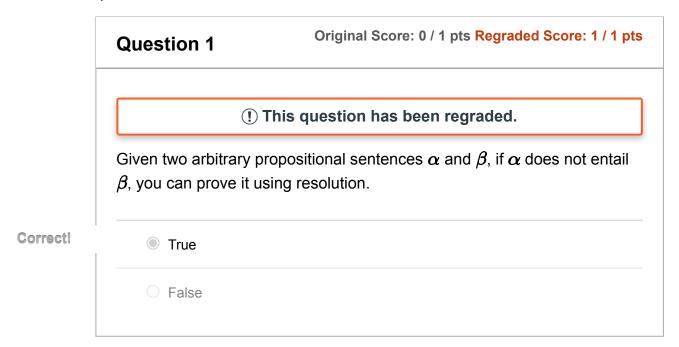
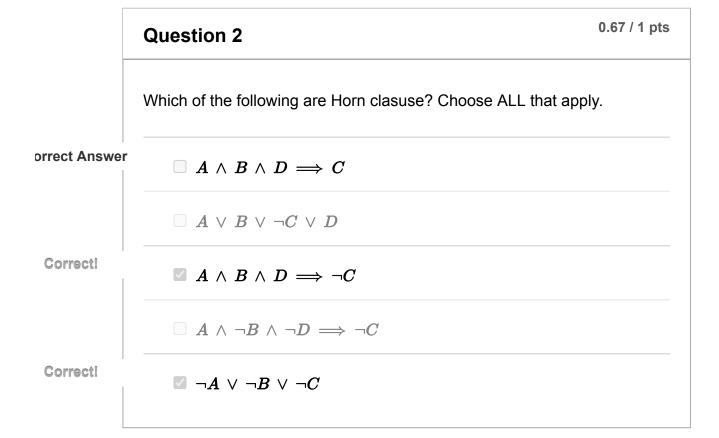
## **CS161 - Quiz 4 Results for ZHANG, CHARLES XIAN**

Score for this quiz: **3.17** out of 4 Submitted Feb 24 at 7:01pm

This attempt took 20 minutes.





Question 3 0.5 / 1 pts

For this question, you will need to convert a propositional sentence to Conjunction Normal Form (CNF).

Please fill in the blanks with symbols like "A" or "~A".

## How to represent a CNF:

- For each blank below, you fill in either a positive literal like "A" or a negative literal like "~A". Negation is represented by "~".
- · It is possible that more blanks are provided than needed. If that's the case, fill in the blanks with "None".
- Important: Please follow the alphabetical order to sort clauses and literals within a clause.

## Example

Given the sentence  $(\neg B \lor C) \land (\neg B \lor A) \land (C \land B \land F)$ 

your result should look like this:

(A ∨~B ∨ None ∨ None)

 $\land$  ( $\sim$ B  $\lor$  C  $\lor$  None  $\lor$  None)

 $\land$  (B  $\lor$  C  $\lor$  F  $\lor$  None)

∧ (None ∨ None ∨ None ∨ None)

- Note that here BC is considered ahead of BCF alphabetically, so the clause (~B ∨ C) will be before (B ∨ C ∨ F).
- If we have clauses (A ∨ B) and (A ∨ C), (A ∨ B) will be before (A ∨ C) because AB is alphabetically ahead of AC.

Convert the following sentence to CNF:

$$A \Leftrightarrow (B \Rightarrow C)$$

( ~A	V ~B	V None	V
None	)		
<b>∧</b> ( ~A	V C	V None	V
None	)		
Λ( A	V B	V None	V
None	)		
Λ( A	V ~C	V None	V
None	)		

ou Answered ~A	
orrect Answer A	
orrect Answer A	
Answer 2:	
ou Answered ~B	
orrect Answer B	
Answer 3:	
Correct! None	
Answer 4:	
Correct! None	
Answer 5:	
ou Answered ~A	
orrect Answer A	
Answer 6:	
ou Answered C	
orrect Answer ~C	
Answer 7:	
Correct! None	
Answer 8:	
Correct! None	
Answer 9:	
ou Answered A	

orrect Answer	~A	
	Answer 10:	
ou Answered	В	
orrect Answer	~B	
	Answer 11:	
ou Answered	None	
orrect Answer	C	
	Answer 12:	
Correct!	None	
	Answer 13:	
ou Answered	A	
orrect Answer	None	
	Answer 14:	
ou Answered	~C	
orrect Answer	None	
	Answer 15:	
Correct!	None	
	Answer 16:	
Correct!	None	

Question 4 1/1 pts

	$lpha \hspace{0.2em}ert\hspace{0.2em} eta$ if and only if $lpha \hspace{0.2em}ert\hspace{0.2em}ert\hspace{0.2em}eta$ is satisfiable.
	○ True
Correct!	False

Quiz Score: 3.17 out of 4