

## An Analysis of 8 Logical Arguments

Using your notes, answer the following eight questions. Follow directions! For each question, correctly filling out the truth-table counts for half of the question, and highlighting the key row counts for the other half of the question. For each truth-table parts, there is no partial credit!

1. Make a truth table for an argument by **logical addition**, and highlight the row that shows how the valid argument can be sound.

<u>Premise</u>	<u>Conclusion</u>
	$\therefore$

2. Make a truth table for an argument by **logical simplification**, and highlight the row that shows how the valid argument can be sound.

<u>Premise</u>	<u>Conclusion</u>
	$\therefore$

3. Make a truth table for **the disjunctive syllogism**, and highlight the row that shows how the valid argument can be sound.

<u>Premise 1</u>	<u>Premise 2</u>	<u>Conclusion</u>
		$\therefore$

4. Make a truth table for **the hypothetical syllogism**, and highlight the row that shows how the valid argument can be sound.

<u>Premise 1</u>	<u>Premise 2</u>	<u>Conclusion</u>
		$\therefore$

5. Make a truth table for ***modus ponens***, and highlight the row that shows how the valid argument can be sound.

<u>Premise 1</u>	<u>Premise 2</u>	<u>Conclusion</u>
		$\therefore$

6. Make a truth table for ***modus tollens***, and highlight the row that shows how the valid argument can be sound.

<u>Premise 1</u>	<u>Premise 2</u>	<u>Conclusion</u>
		$\therefore$

7. Make a truth table for **the fallacy of affirming the consequent**, and highlight the row that shows why the invalid argument is not valid.

<u>Premise 1</u>	<u>Premise 2</u>	<u>Conclusion</u>
		$\therefore$

8. Make a truth table for **the fallacy of denying the antecedent**, and highlight the row that shows why the invalid argument is not valid.

<u>Premise 1</u>	<u>Premise 2</u>	<u>Conclusion</u>
		$\therefore$