

Worksheet Exercise 2.3.B.

Name _____

Symbolizing Conditionals

Class _____ Date _____

Part B. Symbolize the following sentences in the blanks provided. First, give a partial symbolization with capital letters and the original English operator expressions. Then, give a complete symbolization. Write the results side by side for comparison. Pay special attention to what symbolization recipe you use for each of the conditional sentences.

English sentence	partial symb.	complete
1. If this is a platypus, then it lays eggs.	<u>if P, then E</u>	<u>$P \supset E$</u>
2. This doesn't lay eggs, if it is a platypus.	<u>not E, if P</u>	<u>$P \supset \sim E$</u>
3. If this is not a platypus, it doesn't lay eggs.	_____	_____
4. This is a platypus only if it lays eggs.	_____	_____
5. It isn't a platypus only if it doesn't lay eggs.	_____	_____
6. It lays eggs if and only if this isn't a platypus.	_____	_____
7. This is not a platypus unless it lays eggs.	_____	_____
8. This lays eggs unless it is not a platypus.	_____	_____
9. Unless it lays eggs, this is not a platypus.	_____	_____
10. Only if this is a platypus does it lay eggs.	_____	_____
11. It doesn't lay eggs without being a platypus.	_____	_____
12. This lays eggs without it being a platypus.	_____	_____
13. Without it laying eggs, it isn't a platypus.	_____	_____
14. Being a platypus requires that it lay eggs.	_____	_____
15. This is a platypus, but only if it lays eggs.	_____	_____
16. Provided this lays eggs, it is not a platypus.	_____	_____