

Exercises to 1.1 Conjunction, negation, disjunction

(1) *Symbolize the sentences. Indicate for each of the propositional letters you have used (p, q, r, ...) which atomic sentence it symbolizes.*

- 1) This car is not powerful, but it is very economical.
- 2) It's not true that Bob is guilty and John isn't.
- 3) Voldemort is not only mean but also cruel.
- 4) Mushrooms are neither animals nor plants.
- 5) The universe has no end in both time and space.
- 6) Tomorrow we will go by the lake unless it is raining.
- 7) I won't be your friend anymore unless you apologize to me.
- 8) This did not happen today or yesterday.
- 9) Alice wants both ice cream and chocolate, but she won't get either.
- 10) Bob will go to the mountains or the sea, with or without Alice.
- 11) Either the action was deliberate, and the defendant is guilty of murder, or the action was not deliberate, but the defendant has shown criminal negligence.