305 Lecture 50 - Example Models

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- To illustrate what we've done so far with some worked examples.

- Boxes and Diamonds, section 3.6 and 3.7.

Examples

I'm going to go through the table on page 49 of the textbook, and show how there can be models where each of them is false. And I'll add a couple more in besides.

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1. $\Box(A \lor B) \to (\Box A \lor \Box B)$
2. $(\Diamond A \land \Diamond B) \to \Diamond(A \land B)$
3. $A \to \Box A$
4. $\Box A \to A$
5. $\Box \Diamond A \to B$
6. $\Box \Diamond A \to A$
7. $\Box \Box A \to \Box A$
8. $\Box A \to \Box \Box A$
9. $\Box \Diamond A \to \Diamond \Box A$
10. $\Box A \to \Diamond A$