

## Exercise 8

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### Problem 1.

*Solution.*  $\phi \wedge \psi \vdash \phi$ .

□

### Problem 2.

*Solution.*  $\phi \wedge \psi \wedge \chi \vdash \phi$ .

□

### Problem 3.

*Solution.* (a), (f), (i), (j).

□

### Problem 4.

*Solution.* (a), (b), (d), (e), (f).

□