

Logic Exercises 2

1. Investigate the validity of the following semantic entailments:

(a) $p \vee (q \rightarrow \neg p) \models p \vee \neg q$

	p	q	$\neg p$	$\neg q$	$(q \rightarrow \neg p)$	$p \vee (q \rightarrow \neg p)$	$p \vee \neg q$
1	T	T	F	F	F	T	T
2	T	F	F	T	T	T	T
3	F	T	T	F	T	T	F
4	F	F	T	T	T	T	T

Row 3 is a counterexample where the premise is true, but the conclusions false.

Therefore this semantic entailment is NOT valid

(b) $p \vee \neg q \models p \vee (q \rightarrow \neg p)$

For $p \vee (q \rightarrow \neg p)$ to be F, both p and $(q \rightarrow \neg p)$ needs to be F

For $(q \rightarrow \neg p)$ to be F, $\neg p$ needs to be F while q is T which means p and q are T

Hence $p \vee (q \rightarrow \neg p)$ is always true and $p \vee \neg q$

Therefore this semantic entailment is valid

(c) $\models p \vee (q \rightarrow \neg p)$

	p	q	$\neg p$	$(q \rightarrow \neg p)$	$p \vee (q \rightarrow \neg p)$
1	T	T	F	F	T
2	T	F	F	T	T
3	F	T	T	T	T
4	F	F	T	T	T

$p \vee (q \rightarrow \neg p)$ is a tautology, therefore this semantic entailment is valid

(d) $p \vee (q \rightarrow p) \models p \vee \neg q$

	p	q	$\neg q$	$(q \rightarrow p)$	$p \vee (q \rightarrow p)$	$p \vee \neg q$
1	T	T	F	T	T	T
2	T	F	T	T	T	T
3	F	T	F	F	F	F
4	F	F	T	T	T	T

There is no counterexample as in each row where the premise is true, the conclusions is also true.

Therefore this semantic entailment is valid

(e) $p \vee \neg q \models p \vee (q \rightarrow p)$

	p	q	$\neg q$	$(q \rightarrow p)$	$p \vee \neg q$	$p \vee (q \rightarrow p)$
1	T	T	F	T	T	T

Logic Manual Exercise Answers

B Lingard



Logic Manual Exercise Answers:

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