

## 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

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