

① Truth table for  $A \rightarrow B$

A	B	$A \rightarrow B$
t	t	t
t	f	f
f	t	t
f	f	t

② Show that  $A \rightarrow B \equiv \neg A \vee B$

A	B	$A \rightarrow B$	$\neg A$	$\neg A \vee B$
t	t	t	f	t
t	f	f	f	f
f	t	t	t	t
f	f	t	t	t

Notice their truth values are the same

This means that  $A \rightarrow B \equiv \neg A \vee B$