

Quiz 1 Hiden & Lee

P	Q	R	$(P \vee Q) \oplus (P \wedge R)$	$(P \oplus Q) \oplus (Q \oplus R)$	$\neg(P \wedge R)$
T	T	T	F	F	F
T	T	F	T	T	T
T	F	T	T	T	T
T	F	F	T	T	T
F	T	T	T	F	T
F	T	F	F	F	T
F	F	T	F	F	T
F	F	F	F	F	T

$P \Rightarrow Q$; When P is true Q is true, so True
 $P \Rightarrow R$; When P is true R is true, so True
 $Q \Rightarrow R$; When Q is true R is true, so False
 $R \Rightarrow Q$; When R is true Q is true, so True
 $R \Rightarrow P$; When R is true P is true, so False
 $Q \Rightarrow P$; When Q is true P is true, so False

P and R are logically equivalent, as well as Q and $\neg Q$.