CHAPTER 2: TALKING ABOUT MATHEMATICAL OBJECTS

Problem 2.2. Make up the truth table for the exclusive version of *or*.

\overline{P}	\overline{Q}	$P \oplus Q$
1	1	0
1	0	1
0	1	1
0	0	0

							_
	P	Q	$P \implies Q$	$P \longleftarrow Q$	$P \iff Q$	$\neg (P \iff Q)$	
	1	1	1	1	1	0	
Problem 2.4.	1	0	0	1	0	1	(N.B.
	0	1	1	0	0	1	
	0	0	1	1	1	0	
that $(P \longleftrightarrow O) = P \longrightarrow O \land O \longrightarrow P$							•

that $(P \iff Q) \equiv P \implies Q \land Q \implies P)$