4.

 $hasParty(Tweedledee) \leftrightarrow hasParty(Tweedledum)$

hasParty(X) means "X gets a party"

5.

wentConcert(X,Y) This means X and Y went to concert togeth.

Likes(X,Y) This means X likes Y.

So, the answer is:

wentConcert(
$$X,Y$$
) \rightarrow (Likes(X,Y) $^{\land}$ Like(Y,X)).

7.21

Set P as "Keanu Reeves is a great actor" and ~P is "Keanu Reeves is not a great actor".

Set Q as "I am a monkey's uncle" and ~Q is "I am not a monkey's uncle".

The truth table is:

P	Q	P→Q
1	1	1
1	0	0
0	1	1
0	0	1

Since Q is always false, so it follows that P is not true.

Why is " $A \rightarrow \bot$ " equivalent to " $\sim A$ "

Truth table:

A	A→⊥	Т	~A
1	0	0	0
0	1	0	1