

You must show your work to get full credit.

1. What is the converse of "If a function is a polynomial, then it is continuous".

If a function is continuous, then it is a polynomial.

2. What is the contrapositive of "If a function is a polynomial, then it is continuous".

If a function is not continuous, then it is not a polynomial.

3. Use truth tables to decide if the logical equivalence

$$P \vee Q \equiv (\neg P) \rightarrow Q$$

holds.

P	Q	$P \vee Q$	$\neg P$	$\neg P \rightarrow Q$
T	T	T	F	T
T	F	T	F	T
F	T	T	T	T
F	F	F	T	F



 The same.

Yes they are logically equivalent as the truth tables are the same.