Quiz 7

Name: K-e y

You must show your work to get full credit.

1. (a) Write the sentence "x = 1 whenever $x^2 = 1$ " in the form "If P, then Q."

If x=1, then x=1.

(b) Is the sentence of part (a) true?

True or False? False.

As x2=1 only implies x=±1

2. Are $\sim (P \land \sim Q)$ and $\sim P \lor Q$ logically equivalent? Explain your answer.

3. Are $P \implies Q$ and $\sim P \implies \sim Q$ logically equivalent? Explain your answer.

PQPPQVQVQ

NO They are not logically equivalent as