Math 131 - Dr. Miller - Supplemental Problems for HW #6 - Fall 2024

Create the statements requested below, working right on this page. **Do NOT worry about whether the original statements or your creations are actually true.**

1. Write the converse of "$2x$ is a multiple of 5 if x is a multiple of 5" using "sufficient."

2. Write the inverse of "$x^2 > 4$ only if $x > 2$ or $x < -2$" using a trailing "if."

3. Write the contrapositive of "$a > b^2$ implies $a > b$ and $a > -b$" using the word "necessary."

4. Write the converse of "x being even is sufficient for xy to be even" using "only if."

5. Write the inverse of "A necessary condition for xyz to be 0 is that $x = 0$" using "implies."

6. Write the contrapositive of "$x^2 \leq x$ whenever $0 < x < 1$" in "if-then" form.

Staple this page at the end of the rest of your HW #6.