NAME ⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯

1. Suppose S is a nonempty subset of $\mathbb{R}$. Define "x is sup S."

2. Suppose x is an upper bound for a nonempty subset, S of $\mathbb{R}$. State a necessary and sufficient criterion for x to be sup S. (This criterion should not repeat the definition.)

3. State the Completeness Axiom.

4. State the Archimedean Property.

5. Suppose (x_n) is a sequence. Define "(x_n) converges to x."