187 §3- DISCRETE MATHEMATICS - Quiz 6

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Name _____

1. Prove:

   If $x > 0$ and $y > 0$, then $\sqrt{x + y} < \sqrt{x} + \sqrt{y}$.

2. If m and n are integers, the notation $m|n$ means: "m divides n", that is, there is an integer k such that $n = mk$. Prove:

   If $m|k$, $k|n$, and $k|s$, then $m|(n + s)$.