

Math 447: Quiz 2

Name:_____

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1. If $x, y, z \in \mathbb{R}$ and $x \leq z$, show that $x \leq y \leq z$ if and only if $|x - y| + |y - z| = |x - z|$.

2. Find all values of x satisfying the inequality $4 < |x + 2| + |x - 1| < 5$.