HOMEWORK 1

Due Thursday August 30th

The exercises are from *Elementary Analysis*, 2nd edition, by Kenneth Ross.

1. Exercise 1.8
2. Exercise 1.11
3. Exercise 3.8
4. Use the Triangle Inequality to prove each of the following for all $x, y, z \in \mathbb{R}$
   (a) $|x + y + z| \leq |x| + |y| + |z|$.
   (b) $|x| - |y| \leq |x + y|$.