Discrete Math
HW 2

1. Prove the triangle inequality: \( |\sum_{n=1}^{N} x_n| \leq \sum_{n=1}^{N} |x_n| \).

2. Prove the special case: \( a - |b| \leq a + b \leq a + |b| \).

3. Section 3.5, ex. 3,5,6,8,11,24,26,31,33.
   Section 3.6, ex. 2,4,5,6.
   Section 3.7, ex 5-10.

4. Section 3.4, ex. 3,5,6,8,11,13,27,32.