Nam	e:
	MATH55 Section
	Homework 7
	Due Tue 2/19

20.7 Prove by contradiction: If the sum of two primes is prime, then one of the primes must be 2. You may assume that every integer is either even or odd, but never both.

20.13 Let A and B be sets. Prove by contradiction that $(A - B) \cap (B - A) = \emptyset$.

21.3 Prove by the techniques of this section that $n < 2^n$ for all $n \in N$.

21.4 Prove by the techniques of this section that $n! \leq n^n$ for all positive integers n.