MAT 129 Lab #9 March 12, 2007

(1) Use smallest counter example to show that

$$\sum_{k=1}^{n} (2k-1) = n^2.$$

- (2) Use the Well Ordering Principle to show for each integer $n \ge 2$ that n has at least one prime divisor.
- (3) Let A and B be sets. Give a proof by contradiction that

$$(A-B) \cap (B-A) = \emptyset.$$