Math 2534  Homework 6  due on Wed.
Prove the following theorems using PMI

Theorem 1: \( \forall n \in N, \ 1 + 4 + 7 + \ldots + (3n - 2) = \frac{n(3n-1)}{2} \)

Theorem 2: \( \forall n \in N \geq 2, \ n^2 < 2^n \)