Induction Exercises?

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

Inductive Step! Lets assume that p(k) = k2 holds true. Is it true for p(kH)?

We know that,

$$2.1-1+2.2-1$$
 $+2k-1+2(k+1)-1=k^2+2(k+1)-1$
 $=k^2+2k+2-1$
 $=k^2+2k+1$

: So we know that p(n) holds true for n = 1.