

$$\sum_{i=1}^n [(2i+1)^2 - (2i)^2] \Rightarrow \sum_{i=1}^n [(4i^2 + 4i + 1) - 4i^2] \Rightarrow \sum_{i=1}^n (4i + 1) \Rightarrow$$

$$4 \sum_{i=1}^n i + \sum_{i=1}^n 1 \Rightarrow \sum_{i=1}^n [(2i+1)^2 - (2i)^2] = 4 \cdot \frac{n^2 + n}{2} + n = \boxed{2n^2 + 3n}$$

$$S_n = 2n^2 + 3n \Rightarrow 2 \cdot 0^2 + 3 \cdot 0 = \boxed{0}$$

$$S_n = 2n^2 + 3n \Rightarrow 2 \cdot 1^2 + 3 \cdot 1 = \boxed{5}$$

$$S_n = S_{n-1} + a_n \Rightarrow 2(n-1)^2 + 3(n-1) + (4n+1) \Rightarrow$$

$$S_n = 2(n^2 - 2n + 1) + (3n - 3) + (4n + 1) \Rightarrow (2n^2 - 4n + 2) + (3n - 3) + (4n + 1)$$

$$S_n = \boxed{2n^2 + 3n}$$