

(c) For all integers $n \geq 1$, $\sum_{i=1}^n (3i - 1)^2 = \frac{1}{2}n(6n^2 + 3n - 1)$.

Proof. Let $P(n)$ be the predicate $\sum_{i=1}^n (3i - 1)^2 = \frac{1}{2}n(6n^2 + 3n - 1)$.

Basis step: When $n = 1$, the left hand side is

$$\sum_{i=1}^1 (3i - 1)^2 = (3 - 1)^2 = 4$$

and the right hand side is

$$\frac{1}{2} \times n \times (6n^2 + 3n - 1) = \frac{1}{2} \times 8 = 4.$$

Thus $P(1)$ is true.

Inductive step: Assume that for some integer $k \geq 1$, $P(k)$ is true.

Now consider $n = k + 1$.

$$\begin{aligned} \sum_{i=1}^{k+1} (3i - 1)^2 &= \sum_{i=1}^k (3i - 1)^2 + \left(3(k + 1) - 1\right)^2 \\ &= \frac{1}{2} \times k \times (6k^2 + 3k - 1) + (3k + 2)^2 \\ &= \frac{1}{2} \times k \times (6k^2 + 3k - 1) + 9k^2 + 12k + 4 \\ &= \frac{1}{2} \times (6k^3 + 3k^2 - k + 18k^2 + 24k + 8) \\ &= \frac{1}{2} \times (6k^3 + 21k^2 + 23k + 8) \\ &= \frac{1}{2} \times (6(k^3 + 3k^2 + 3k + 1) + 3k^2 + 5k + 2) \\ &= \frac{1}{2} \times \left(6(k + 1)^3 + 3(k^2 + 2k + 1) - k - 1\right) \\ &= \frac{1}{2} \times \left(6(k + 1)^3 + 3(k + 1)^2 - (k + 1)\right) \\ &= \frac{1}{2} \times (k + 1) \times \left(6(k + 1)^2 + 3(k + 1) - 1\right) \end{aligned}$$

Thus $P(k + 1)$ is true, so by the principle of mathematical induction, $\sum_{i=1}^n (3i - 1)^2 = \frac{1}{2}n(6n^2 + 3n - 1)$ for all integers $n \geq 1$.

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