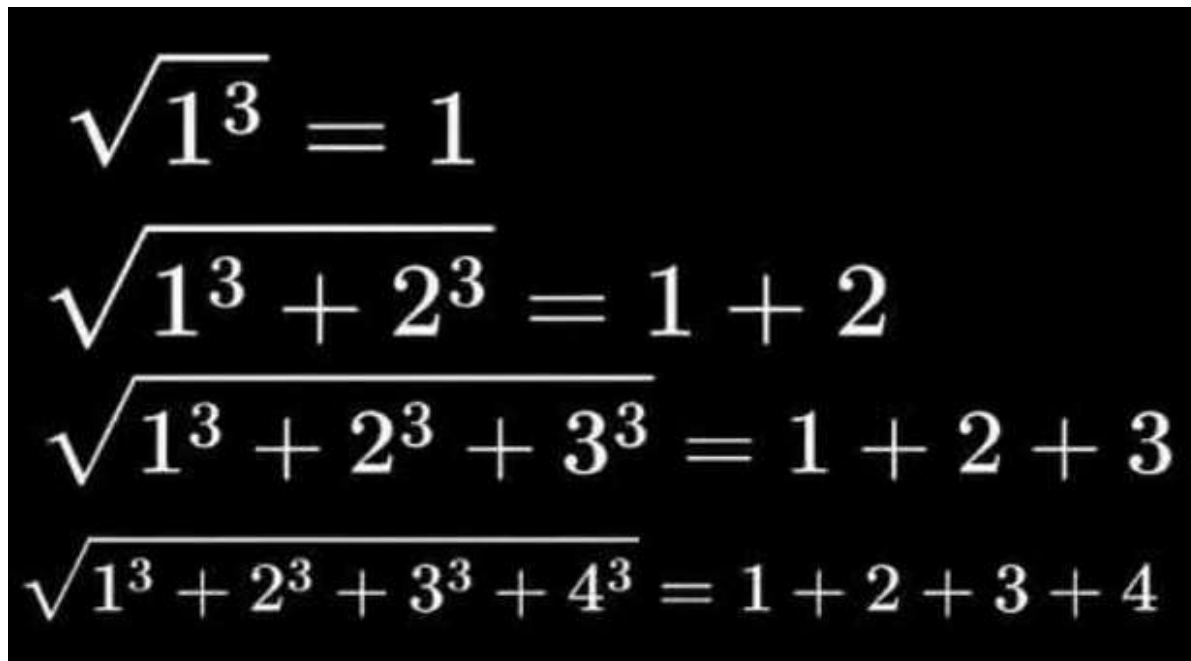


$[S(n)]^2$	$S(n)$	n	n^3	$S(n^3)$
1	1	1	1	1
9	3	2	8	9
36	6	3	27	36
100	10	4	64	100
225	15	5	125	225
441	21	6	216	441
784	28	7	343	784
1296	36	8	512	1296
2025	45	9	729	2025
3025	55	10	1000	3025
4356	66	11	1331	4356
6084	78	12	1728	6084



$\frac{[(1+n)n]^2}{4}$	$(1+n)n$	n	n^3	$S(n^3)$
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$\frac{[(2+n)(n+1)]^2}{4}$	$=$	$?$	$S(n^3) + (n+1)^3$
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supondo que

$\frac{[(1+n)n]^2}{4}$	$=$	$S(n^3)$
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$S(n^3)$	$=$	$\frac{[(1+n)n]^2}{4}$	\implies	$S(n^3) + (n+1)^3$	$=$	$\frac{[(1+n)n]^2}{4} + (n+1)^3$
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$\frac{(n+n^2)^2}{4}$	$+ n^3 + 3n^2 + 3n + 1$
$\frac{n^2 + 2n^3 + n^4}{4}$	$+ 4n^3 + 12n^2 + 12n + 4$

$\frac{[(2+n)(n+1)]^2}{4}$	$=$	$\frac{[n^2 + 3n + 2]^2}{4}$	$=$	$\frac{n^4 + 9n^2 + 4 + 6n^3 + 4n^2 + 12n^2}{4}$	\iff	$S(n^3) + (n+1)^3$	$=$	$\frac{n^4 + 6n^3 + 13n^2 + 12n + 4}{4}$
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