



| Mathematical includion
$$1^{2}+2^{2}+3^{2}+\cdots+n^{2}=\frac{n(n+1)(2n+1)}{6} \rightarrow 0$$

| if $n=0$ in eq 0 .

| $0^{2}=0(0+1)(0+1)$
| $0=0$

| $1^{2}+2^{2}+3^{2}+\cdots+k^{2}=\frac{k \cdot (k+1)(2k+1)}{6} \rightarrow 0$

| $1^{2}+2^{2}+3^{2}+\cdots+k^{2}+(k+1)^{2}=\frac{(k+1)(k+2)(2k+3)}{6}$

| $1^{2}+2^{2}+3^{2}+\cdots+k^{2}+(k+1)^{2}=\frac{(k+1)(k+2)(2k+3)}{6}$

| $1^{2}+2^{2}+3^{2}+\cdots+k^{2}+(k+1)^{2}=\frac{(k+1)(k+2)(2k+3)}{6}$

| $1^{2}+2^{2}+3^{2}+\cdots+k^{2}+(k+1)^{2}=\frac{(k+1)(2k+1)+6(k+1)}{6}$
| $1^{2}+2^{2}+3^{2}+\cdots+k^{2}+(k+1)^{2}=\frac{(k+1)(2k+1)+6(k+1)^{2}}{6}$
| $1^{2}+2^{2}+3^{2}+\cdots+k^{2}+(k+1)^{2}=\frac{(k+1)(2k+1)+6(k+1)^{2}}{6}$
| $1^{2}+2^{2}+3^{2}+\cdots+k^{2}+(k+1)^{2}+(k+1)^{2}=\frac{(k+1)(2k+1)+6(k+1)^{2}}{6}$
| $1^{2}+2^{2}+3^{2}+\cdots+k^{2}+(k+1)^{2}$

12 is irrational! lets assume 12 is rational $\sqrt{2} = \frac{a}{L}$ a_1b_1 and coprimes (116 #010) () 12b = a squating on bis () () () () () () $(\sqrt{2}b)^2 = a^2$ ofa2 is divisible by 2] [a is divisible by 2]) poni put in eq 0 2 b = (2 c) 2 26 = 40 2 (1+40)(1+4) 4 = 0,000; or [b² is divisible by 2] a, b have common factors > 2 contradiction : 12 is an irrational number. [9+78+71 + 46] (+2) [(6+2) 8+(8+2) 45] (1+2) (8+1) (1+2) (2+13) = a.H.9