

Amritanilayam Stotras

???????? ????3??? - ?????3? ?????2?? ??????:

$1^3 + 2^3 + 3^3 + \dots + n^3 = \left(\frac{n(n+1)}{2}\right)^2$ (15)
 $1^4 + 2^4 + 3^4 + \dots + n^4 = \frac{n(n+1)(2n+1)(3n^2+3n-1)}{30}$
 $1^5 + 2^5 + 3^5 + \dots + n^5 = \frac{n^2(n+1)^2(2n^2+5n+3)}{12}$
 $1^6 + 2^6 + 3^6 + \dots + n^6 = \frac{n(n+1)(2n+1)(3n^4+6n^3-3n^2-2n+1)}{42}$
 $1^7 + 2^7 + 3^7 + \dots + n^7 = \frac{n^2(n+1)^2(2n^2+5n+3)(3n^2+3n-1)}{24}$
 $1^8 + 2^8 + 3^8 + \dots + n^8 = \frac{n(n+1)(2n+1)(3n^6+12n^5+14n^4-7n^3-7n^2+2n+1)}{90}$
 $1^9 + 2^9 + 3^9 + \dots + n^9 = \left(\frac{n(n+1)}{2}\right)^2 (2n^2+5n+3)$
 $1^{10} + 2^{10} + 3^{10} + \dots + n^{10} = \frac{n(n+1)(2n+1)(3n^8+12n^7+14n^6-7n^5-7n^4+2n^3+2n^2-1)}{252}$

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Sri Amritananda Natha Guruvu Garu, Amrita Nilayam, Gowravaram Village & Post, Kavali Mandal, Nellore District, Andhra Pradesh.
Phone Number: +91 9493475515 | www.amritanilayam.org