Algo Focus

Sum = 1 (n+1) Sum = 1+2+3+4+3

of nymbors 2

less than given limit n

Sum of squares

f(n) = \frac{n}{6} \left(2n+1) \left(n+1) \text{formula}

limit \ \floor \left(1n+2) \text{formula}

\text{f(n)} = \frac{1}{2} + \frac{1}{2}

Z

atbectd 8 at 46 tactor = 5 27 a +9 b + 3 c + d = 14 -8P,+P2 &

 $f(n+i) = f(n) + (n+i)^2$ $(ntl)(2(ntl)+1)(ntltl)=\frac{n(2ntl)(ntl)}{6}(ntl)$ $(n+1)(2n+3)(n+2) = \frac{1}{3}n^3 + \frac{3}{4}|n^3| + \frac{1}{6}n + (n+1)^4$ $23^{3}\left(\frac{1}{2}n^{3}\right)+\frac{1}{6}n+\binom{2}{n}$ $+2n+1^{2}$ $2 n(n^2 + 3n + 2) + 3(n^2 + 3n + 2)$ $2 \left(2n^{3} + 6n^{3} + 4n + 3n^{2} + 9n^{4} + 4 \right)^{2} = \frac{1}{3}n^{3} + \frac{3}{3}n^{2} + \frac{13}{3}n^{4} + \frac{13}$ $z = \frac{2}{3} + 9n^2 + 13n + 6$ equalts $\left|\frac{1}{3}n^{3}+\frac{3n^{3}}{3}+\frac{13}{5}n+1\right|$ Remembers n is limit · f (nom) is correct for n = 100 etc. indication (nti) is used to get sum of square le Pt22 2 1002

$$\frac{1}{2} \int_{0}^{1} \frac{1}{2} dx + \frac{1}{2} \int_{0}^{1} \frac{1}{2} \int_{0}^{$$