

- $\sum_{k=1}^n k^2 = \frac{n(n+1)(2n+1)}{6}$
- $\sum_{k=1}^n k^3 = \left(\frac{n(n+1)}{2}\right)^2$
- $\sum_{k=1}^n k^4 = \frac{n(n+1)(2n+1)(3n^2+3n-1)}{30}$
- $\sum_{k=1}^n k^5 = \frac{n^2(n+1)^2(2n^2+5n+3)}{12}$
- $\sum_{k=1}^n k^6 = \frac{n(n+1)(2n+1)(3n^3+6n^2-3n-1)}{42}$
- $\sum_{k=1}^n k^7 = \frac{n^2(n+1)^2(2n^3+7n^2+7n-1)}{24}$
- $\sum_{k=1}^n k^8 = \frac{n(n+1)(2n+1)(3n^4+8n^3+6n^2-3n-1)}{90}$
- $\sum_{k=1}^n k^9 = \frac{n^2(n+1)^2(2n^4+9n^3+13n^2-3n-1)}{360}$
- $\sum_{k=1}^n k^{10} = \frac{n(n+1)(2n+1)(3n^5+15n^4+12n^3-3n^2-3n-1)}{2520}$
- $\sum_{k=1}^n k^{11} = \frac{n^2(n+1)^2(2n^5+11n^4+22n^3-3n^2-3n-1)}{1080}$
- $\sum_{k=1}^n k^{12} = \frac{n(n+1)(2n+1)(3n^6+18n^5+15n^4-3n^3-3n^2-3n-1)}{9240}$
- $\sum_{k=1}^n k^{13} = \frac{n^2(n+1)^2(2n^6+13n^5+32n^4+14n^3-3n^2-3n-1)}{3240}$
- $\sum_{k=1}^n k^{14} = \frac{n(n+1)(2n+1)(3n^7+21n^6+27n^5-3n^4-3n^3-3n^2-3n-1)}{102960}$
- $\sum_{k=1}^n k^{15} = \frac{n^2(n+1)^2(2n^7+15n^6+42n^5+42n^4-3n^3-3n^2-3n-1)}{527160}$
- $\sum_{k=1}^n k^{16} = \frac{n(n+1)(2n+1)(3n^8+24n^7+36n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{2425440}$
- $\sum_{k=1}^n k^{17} = \frac{n^2(n+1)^2(2n^8+17n^7+54n^6+72n^5-3n^4-3n^3-3n^2-3n-1)}{17714700}$
- $\sum_{k=1}^n k^{18} = \frac{n(n+1)(2n+1)(3n^9+27n^8+54n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{131281920}$
- $\sum_{k=1}^n k^{19} = \frac{n^2(n+1)^2(2n^9+19n^8+72n^7+108n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{787365360}$
- $\sum_{k=1}^n k^{20} = \frac{n(n+1)(2n+1)(3n^{10}+30n^9+72n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{2431838400}$
- $\sum_{k=1}^n k^{21} = \frac{n^2(n+1)^2(2n^{10}+21n^9+90n^8+144n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{15747541200}$
- $\sum_{k=1}^n k^{22} = \frac{n(n+1)(2n+1)(3n^{11}+36n^{10}+108n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{108846816000}$
- $\sum_{k=1}^n k^{23} = \frac{n^2(n+1)^2(2n^{11}+23n^{10}+120n^9+216n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{795398400000}$
- $\sum_{k=1}^n k^{24} = \frac{n(n+1)(2n+1)(3n^{12}+45n^{11}+180n^{10}-3n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{5198394360000}$
- $\sum_{k=1}^n k^{25} = \frac{n^2(n+1)^2(2n^{12}+25n^{11}+180n^{10}+432n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{35296628160000}$
- $\sum_{k=1}^n k^{26} = \frac{n(n+1)(2n+1)(3n^{13}+60n^{12}+270n^{11}-3n^{10}-3n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{223356032640000}$
- $\sum_{k=1}^n k^{27} = \frac{n^2(n+1)^2(2n^{13}+27n^{12}+216n^{11}+864n^{10}-3n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{1455705817600000}$
- $\sum_{k=1}^n k^{28} = \frac{n(n+1)(2n+1)(3n^{14}+81n^{13}+360n^{12}-3n^{11}-3n^{10}-3n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{937593612000000}$
- $\sum_{k=1}^n k^{29} = \frac{n^2(n+1)^2(2n^{14}+29n^{13}+252n^{12}+1728n^{11}-3n^{10}-3n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{6117288076800000}$
- $\sum_{k=1}^n k^{30} = \frac{n(n+1)(2n+1)(3n^{15}+105n^{14}+540n^{13}-3n^{12}-3n^{11}-3n^{10}-3n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{3978191360000000}$
- $\sum_{k=1}^n k^{31} = \frac{n^2(n+1)^2(2n^{15}+31n^{14}+324n^{13}+4320n^{12}-3n^{11}-3n^{10}-3n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{26187942720000000}$
- $\sum_{k=1}^n k^{32} = \frac{n(n+1)(2n+1)(3n^{16}+135n^{15}+720n^{14}-3n^{13}-3n^{12}-3n^{11}-3n^{10}-3n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{170212172160000000}$
- $\sum_{k=1}^n k^{33} = \frac{n^2(n+1)^2(2n^{16}+33n^{15}+432n^{14}+10368n^{13}-3n^{12}-3n^{11}-3n^{10}-3n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{1101414412800000000}$
- $\sum_{k=1}^n k^{34} = \frac{n(n+1)(2n+1)(3n^{17}+153n^{16}+900n^{15}-3n^{14}-3n^{13}-3n^{12}-3n^{11}-3n^{10}-3n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{7142794675200000000}$
- $\sum_{k=1}^n k^{35} = \frac{n^2(n+1)^2(2n^{17}+35n^{16}+504n^{15}+17280n^{14}-3n^{13}-3n^{12}-3n^{11}-3n^{10}-3n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{46281961088000000000}$
- $\sum_{k=1}^n k^{36} = \frac{n(n+1)(2n+1)(3n^{18}+189n^{17}+1080n^{16}-3n^{15}-3n^{14}-3n^{13}-3n^{12}-3n^{11}-3n^{10}-3n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{301732727040000000000}$
- $\sum_{k=1}^n k^{37} = \frac{n^2(n+1)^2(2n^{18}+37n^{17}+648n^{16}+43200n^{15}-3n^{14}-3n^{13}-3n^{12}-3n^{11}-3n^{10}-3n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{19615535257600000000000}$
- $\sum_{k=1}^n k^{38} = \frac{n(n+1)(2n+1)(3n^{19}+225n^{18}+1350n^{17}-3n^{16}-3n^{15}-3n^{14}-3n^{13}-3n^{12}-3n^{11}-3n^{10}-3n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{127421878656000000000000}$
- $\sum_{k=1}^n k^{39} = \frac{n^2(n+1)^2(2n^{19}+39n^{18}+864n^{17}+103680n^{16}-3n^{15}-3n^{14}-3n^{13}-3n^{12}-3n^{11}-3n^{10}-3n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{836152212320000000000000}$
- $\sum_{k=1}^n k^{40} = \frac{n(n+1)(2n+1)(3n^{20}+279n^{19}+1620n^{18}-3n^{17}-3n^{16}-3n^{15}-3n^{14}-3n^{13}-3n^{12}-3n^{11}-3n^{10}-3n^9-3n^8-3n^7-3n^6-3n^5-3n^4-3n^3-3n^2-3n-1)}{5407689481600000000000000$

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...	8525	5744	4794
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