- **Quadruples: 2*n*(3*n+1), (2*n+1)*(3*n+1), 6*n^2+8*n+3, (n+1)*(6*n+5) give**

a(n) = (6*n^2+8*n+3+(-1)^n-2*((-1)^((2*n+1-(-1)^n)/4)+(-1)^((2*n-1+(-1)^n)/4)))/16.

Quadruples: 2*n*(3*n+1), (2*n+1)*(3*n+1), (n+1)*(6*n+5), 6*n^2+8*n+3 give

a(n) = (2*(3*n^2+4*n+3)+2*(3*n+1)*(-1)^n-5*(-1)^((2*n-1+(-1)^n)/4)-3*(2*n+1)*(-1)^((2*n+1-(-1)^n)/4))/16.

- **Quadruples: 2*n*(3*n+1), 6*n^2+8*n+3, (2*n+1)*(3*n+1), (n+1)*(6*n+5) give**

a(n) = (2*(3*n^2+4*n+3)-6*(n+1)*(-1)^n+(6*n+5)*(-1)^((2*n-1+(-1)^n)/4)-5*(-1)^((2*n+1-(-1)^n)/4))/16.

- **Quadruples: 2*n*(3*n+1), 6*n^2+8*n+3, (n+1)*(6*n+5), (2*n+1)*(3*n+1) give**

a(n) = (2*(3*n^2+4*n+6)+2*(3*n-2)*(-1)^n+(6*n-1)*(-1)^((2*n-1+(-1)^n)/4)-(12*n+7)*(-1)^((2*n+1-(-1)^n)/4))/16.

- **Quadruples: 2*n*(3*n+1), (n+1)*(6*n+5), (2*n+1)*(3*n+1), 6*n^2+8*n+3 give**

a(n) = (2*(3*n^2+4*n+6)-6*(n+2)*(-1)^n+3*((4*n+3)*(-1)^((2*n-1+(-1)^n)/4)-(2*n+3)*(-1)^((2*n+1-(-1)^n)/4)))/16.

- **Quadruples: 2*n*(3*n+1), (n+1)*(6*n+5), 6*n^2+8*n+3, (2*n+1)*(3*n+1) give**

a(n) = (6*n^2+8*n+15-11*(-1)^n+2*(3*(2*n+1)*(-1)^((2*n-1+(-1)^n)/4)-(6*n+5)*(-1)^((2*n+1-(-1)^n)/4)))/16.

abcd	*bacd*
abdc	*badc*
acbd	*bcad*
acdb	*bcda*
adbc	*bdac*
adcb	*bdca*

- **Quadruples: (2*n+1)*(3*n+1), 2*n*(3*n+1), 6*n^2+8*n+3, (n+1)*(6*n+5) give**

a(n) = (2*(3*n^2+4*n+3)+6*(n+1)*(-1)^n+(-1)^((2*n-1+(-1)^n)/4)+3*(2*n+1)*(-1)^((2*n+1-(-1)^n)/4))/16.

- **Quadruples: (2*n+1)*(3*n+1), 2*n*(3*n+1), (n+1)*(6*n+5) , 6*n^2+8*n+3 give**

a(n) = (6*n^2+8*n+9+(12*n+7)*(-1)^n-2*((-1)^((2*n-1+(-1)^n)/4)-(-1)^((2*n+1-(-1)^n)/4)))/16.

- **Quadruples: (2*n+1)*(3*n+1), 6*n^2+8*n+3 , 2*n*(3*n+1), (n+1)*(6*n+5) give**

a(n) = (2*(3*n^2+4*n+6)-6*n*(-1)^n+(12*n+7)*(-1)^((2*n-1+(-1)^n)/4)+3*(2*n-1)*(-1)^((2*n+1-(-1)^n)/4))/16.

- **Quadruples: (2*n+1)*(3*n+1), 6*n^2+8*n+3 , (n+1)*(6*n+5), 2*n*(3*n+1)** give

a(n) = (6*n^2+8*n+21+(12*n-5)*(-1)^n+2*(6*n-1)*((-1)^((2*n-1+(-1)^n)/4)-(-1)^((2*n+1-(-1)^n)/4)))/16.

- **Quadruples: (2*n+1)*(3*n+1), (n+1)*(6*n+5), 2*n*(3*n+1), 6*n^2+8*n+3** give

a(n) = (2*(3*n^2+4*n+9)-6*(n+1)*(-1)^n+(18*n+11)*(-1)^((2*n-1+(-1)^n)/4)-7*(-1)^((2*n+1-(-1)^n)/4))/16.

- **Quadruples: (2*n+1)*(3*n+1), (n+1)*(6*n+5), 6*n^2+8*n+3,2*n*(3*n+1) give**

a(n) = (2*(3n^2+4*n+12)+6*(n-2)*(-1)^n+(18*n+5)*(-1)^((2*n-1+(-1)^n)/4)-(12*n+1)*(-1)^((2*n+1-(-1)^n)/4))/16.

- **Quadruples: 6*n^2+8*n+3, 2*n*(3*n+1), (2*n+1)*(3*n+1), (n+1)*(6*n+5) give**

a(n) = (2*(3*n^2+4*n+6)+6*(n+2)*(-1)^n+(6*n+11)*(-1)^((2*n-1+(-1)^n)/4)+(12*n+13)*(-1)^((2*n+1-(-1)^n)/4))/16.

- **Quadruples: 6*n^2+8*n+3 , 2*n*(3*n+1), (n+1)*(6*n+5), (2*n+1)*(3*n+1) give**

a(n) = (2*(3*n^2+4*n+9)+2*(9*n+7)*(-1)^n+(6*n+5)*(-1)^((2*n-1+(-1)^n)/4)+11*(-1)^((2*n+1-(-1)^n)/4))/16 .

- **Quadruples: 6*n^2+8*n+3 , (2*n+1)*(3*n+1), 2*n*(3*n+1), (n+1)*(6*n+5) give**

a(n) = (6*n^2+8*n+15+13*(-1)^n+2*(6*n+5)*((-1)^((2*n-1+(-1)^n)/4)+((-1)^((2*n+1-(-1)^n)/4)))/16.

- **Quadruples: 6*n^2+8*n+3 , (2*n+1)*(3*n+1), (n+1)*(6*n+5), 2*n*(3*n+1) give**

a(n) = (2*(3*n^2+4*n+12)+2*(9*n+4)*(-1)^n+(12*n+1)*(-1)^((2*n-1+(-1)^n)/4)-3*(2*n-5)*(-1)^((2*n+1-(-1)^n)/4))/16.

- **Quadruples: 6*n^2+8*n+3 , (n+1)*(6*n+5), 2*n*(3*n+1), (2*n+1)*(3*n+1) give**

a(n) = (6*n^2+8*n+27+(-1)^n+2*(3*(4*n+3)*(-1)^((2*n-1+(-1)^n)/4)+(-1)^((2*n+1-(-1)^n)/4)))/16.

- **Quadruples: 6*n^2+8*n+3 , (n+1)*(6*n+5), (2*n+1)*(3*n+1), 2*n*(3*n+1) give**

a(n) = (2*(3*n^2+4*n+15)+6*(n-1)*(-1)^n+3*((8*n+5)*(-1)^((2*n-1+(-1)^n)/4)-(2*n-3)*(-1)^((2*n+1-(-1)^n)/4)))/16.

cabd	*dabc*
cabd	*dacb*
cbad	*dbcd*
cbda	*dbda*
cdab	*dcab*
cdba	*dcba*

- **Quadruples: (n+1)*(6*n+5), 2*n*(3*n+1), (2*n+1)*(3*n+1), 6*n^2+8*n+3 give**

a(n) = (6*n^2+8*n+21+(12*n+19)*(-1)^n+2*(3*(2*n+3)*(-1)^((2*n-1+(-1)^n)/4)+(6*n+11)*(-1)^((2*n+1-(-1)^n)/4)))/16.

- **Quadruples: (n+1)*(6*n+5), 2*n*(3*n+1), 6*n^2+8*n+3, (2*n+1)*(3*n+1), give**

a(n) = (2*(3*n^2+4*n+12)+2*(9*n+10)*(-1)^n+3*((4*n+5)*(-1)^((2*n-1+(-1)^n)/4)+(2*n+7)*(-1)^((2*n+1-(-1)^n)/4)))/16.

- **Quadruples: (n+1)*(6*n+5), (2*n+1)*(3*n+1), 2*n*(3*n+1), 6*n^2+8*n+3 give**

a(n) = (2*(3*n^2+4*n+12)+2*(3*n+10)*(-1)^n+(18*n+17)*(-1)^((2*n-1+(-1)^n)/4)+(12*n+19)*(-1)^((2*n+1-(-1)^n)/4))/16.

- **Quadruples: (n+1)*(6*n+5), (2*n+1)*(3*n+1), 6*n^2+8*n+3 , 2*n*(3*n+1) give**

a(n) = (2*(3*n^2+4*n+15)+2*(9*n+7)*(-1)^n+(18*n+11)*(-1)^((2*n-1+(-1)^n)/4)+25*(-1)^((2*n+1-(-1)^n)/4))/16.

- **Quadruples: (n+1)*(6*n+5), 6*n^2+8*n+3 , 2*n*(3*n+1), (2*n+1)*(3*n+1) give**

a(n) = (2*(3*n^2+4*n+15)+2*(3“n+7)*(-1)^n+3*((8*n+7)*(-1)^((2*n-1+(-1)^n)/4)+(2*n+5)*(-1)^((2*n+1-(-1)^n)/4)))/16.

- **Quadruples: (n+1)*(6*n+5), 6*n^2+8*n+3 , (2*n+1)*(3*n+1), 2*n*(3*n+1) give**

a(n) = (6*n^2+8*n+33+(12*n+7)*(-1)^n+2*(3*(4*n+3)*(-1)^((2*n-1+(-1)^n)/4)+11*(-1)^((2*n+1-(-1)^n)/4)))/16.