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EJS_P2P2P4P10P16P28P48P76P110P144P182_P1N3P4N4P4N4P4N4P4N4P3

Nbre (10-500): 30

Exponential formula
Hyperbolic formula
Trigonometric formula

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Mode Admin: Universal Atlas of Geometric Constants GCEJS Derived from Linear Recurrences

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EJS_P2P2P4P10P16P28P48P76P110P144P182_P1N3P4N4P4N4P4N4P4N4P3 has already been provided to the Universal Atlas of Geometric Linear Recurrences.

Mathematic EJS_P2P2P4P10P16P28P48P76P110P144P182_P1N3P4N4P4N4P4N4P4N4P3 sequence

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LinearRecurrence[{3, -4, 4, -4, 4, -4, 4, -4, 4, -3, 1}, {2, 2, 4, 10, 16, 28, 48, 76, 110, 144, 182}, 30]
a(n) = (1)*a(n-11) + (-3)*a(n-10) + (4)*a(n-9) + (-4)*a(n-8) + (4)*a(n-7) + (-4)*a(n-6) + (4)*a(n-5) + (-4)*a(n-4) + (4)*a(n-3) + (-4)*a(n-2) + (3)*a(n-1)
Initial Terms: a(0) = 2, a(1) = 2, a(2) = 4, a(3) = 10, a(4) = 16, a(5) = 28, a(6) = 48, a(7) = 76, a(8) = 110, a(9) = 144, a(10) = 182
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$$EJS\_P2P2P4P10P16P28P48P76P110P144P182\_P1N3P4N4P4N4P4N4P4N4P3(n) = a(n) = -\frac{125 \cdot 2^{\frac{n}{2}} \cdot 8^n}{-40\sqrt{5}\left(2\sqrt{2}+2\sqrt{10}+4i\sqrt{5-\sqrt{5}}\right)^n + 120\left(2\sqrt{2}+2\sqrt{10}+4i\sqrt{5-\sqrt{5}}\right)^n - 64\sqrt{5}i\sqrt{\frac{5}{8}-\frac{\sqrt{5}}{8}}\left(2\sqrt{2}+2\sqrt{10}+4i\sqrt{5-\sqrt{5}}\right)^n + 160i\sqrt{\frac{5}{8}-\frac{\sqrt{5}}{8}}\left(2\sqrt{2}+2\sqrt{10}+4i\sqrt{5-\sqrt{5}}\right)^n} - \frac{1055 \cdot 2^{\frac{n}{2}} \cdot 8^n i\sqrt{\frac{4}{8}-\frac{\sqrt{5}}{8}}}{-80\sqrt{5}\left(2\sqrt{2}+2\sqrt{10}+4i\sqrt{5-\sqrt{5}}\right)^n + 240\left(2\sqrt{2}+2\sqrt{10}+4i\sqrt{5-\sqrt{5}}\right)^n - 128\sqrt{5}i\sqrt{\frac{5}{8}-\frac{\sqrt{5}}{8}}\left(2\sqrt{2}+2\sqrt{10}+4i\sqrt{5-\sqrt{5}}\right)^n + 320i\sqrt{\frac{5}{8}-\frac{\sqrt{5}}{8}}\left(2\sqrt{2}+2\sqrt{10}+4i\sqrt{5-\sqrt{5}}\right.$$

```
2,  2,  4,  10,  16,  28,  48,  76,  110,  144,  182,  222,  264,  310,  356,  408,  468,  536,  610,  684,  762,  842,  924,  1010,  1096,  1188,  1288,  1396,  1510,  1624,  1742

 a(0) = 2
 a(1) = 2
 a(2) = 4
 a(3) = 10
 a(4) = 16
 a(5) = 28
 a(6) = 48
 a(7) = 76
 a(8) = 110
 a(9) = 144
 a(10) = 182
 a(11) = 222
 a(12) = 264
 a(13) = 310
```

Sequence [2, 2, 4, 10, 16, 28, 48, 76, 110, 144, 182, 222, 264, 310, 356, 408, 468, 536, 610, 684, 762, 842, 924, 1010, 1096, 1188, 1288, 1396, 1510, 1624, 1742]:
OEIS

This sequence provides no significant data for the Universal Atlas of Geometric Constants GCEJS Derived from Linear Recurrences.

$$EJS\_P2P2P4P10P16P28P48P76P110P144P182\_P1N3P4N4P4N4P4N4P4N4P3_{GF}(x) = \frac{-4x^{10}+2x^9-2x^8-4x^7-4x^6-4x^5-2x^4+2x^3-6x^2+4x-2}{x^{11}-3x^{10}+4x^9-4x^8+4x^7-4x^6+4x^5-4x^4+4x^3-4x^2+3x-1}$$

Navigation in a quantum univers 2D/3D of variants; more details on Wiki (EJS Fibovar Theory)

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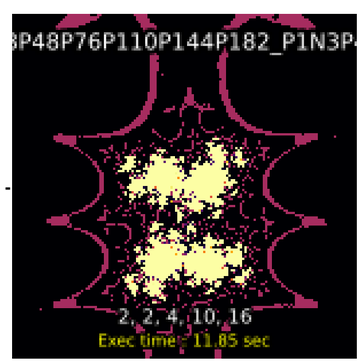

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