GENERATOR POL/HATVAINTSOR

Fib.
$$F_0 = 0$$
, $F_1 = 1$, $F_n = F_{n-1} + F_{n-2}$ be $u \ge 2$

$$F_{-n} = (-1)^n \cdot F_n$$

$$F_n = \frac{1}{\sqrt{5}} \cdot \left(\frac{1+\sqrt{5}}{2} \right)^n \cdot \left(\frac{1-\sqrt{5}}{2} \right)^n$$

$$X^2 = x + 1$$

$$Y_5 \cdot \left(\frac{1}{2} \right)^n \cdot \left(\frac{1-\sqrt{5}}{2} \right)^n$$

$$X^2 = x + 1$$

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$$Y_7 \cdot \left($$

GENERÁTOR FÜGGEUGUNTEL:

Z FORMÁLIS HATVAÍNT CAR

$$G(x) := F_o + F_1 \times + F_2 x^2 + F_3 x^3 + \dots \qquad F_n \times^n + \dots = F_$$

 $(1 - x - x^{2}) G(x) = F_{o} + (F_{1} - F_{0}) \times + (F_{2} - F_{1} - F_{0}) x^{2} + (F_{3} - F_{2} - F_{1}) x^{3} + \cdots$ $= 0 + 1 \cdot x + 0 \cdot x^{2} + 0 \cdot x^{3} + 0 x^{4} + \cdots$

$$G(x) = \frac{x}{1 - x - x^2}$$

$$G(x) = \frac{1}{1 - x - x^2}$$
hatvangs=re.

• Konkrét keiplet:
$$\frac{1}{\sqrt{1-1}}\left(\frac{1+\sqrt{5}}{2}\right)^{4} - \left(\frac{1-\sqrt{5}}{2}\right)^{4}$$

 $G(x) = \frac{x}{(-x-x^2)}$

 $(1-\varphi \times)(1-\varphi \times)$

$$\sim$$
 : $(f(\times$

$$\cdot \cdot (f(x))^2$$

q: \frac{7}{2}

Fib. - sov. frach

paraidis totherne boulds

$$G(x) = \frac{A}{1-cpx} + \frac{B}{1-cpx}$$

$$A \cdot \left(1+cpx+cp^2x^2+cp^2x^3+\ldots\right)$$

$$F_n = A \cdot cp^n + B \cdot p^n$$

$$VEHE'Z EZZEZ SZA'HOLNI', (1+cpx)$$

$$assimptotions uselle air kideriil.

ALT. TE'TEL: $G(x)$ konvergenciasugra X actuar eggüttneték: $(a_n v a^{-n})$$$

PÉNZVALTA):

Hanyfeldripp lett 10000 Ft - of 5,10,20,50,000,200,

500,1000 2000, 5000,

10000 Ft - 050200

LEGIEN CSAK 5,10,20 Ft - os:

$$1(x) = (1+x^5+x^0+x^15+x^20+...) = \sum_{N=0}^{\infty} x^{5N} = \frac{1}{1-x^5}$$

$$g(x) = (1+x^0+x^0+x^20-...) = \sum_{N=0}^{\infty} x^{5N} = \frac{1}{1-x^5}$$

$$g(x) = (1+x^{10} + x^{10} + x^{10} + x^{10}) = \sum_{x=0}^{10} x^{10} = \frac{1}{1-x^{10}}$$

$$l(x) = (1+x^{10} + x^{10} + x^{10} + x^{10}) = \sum_{x=0}^{10} x^{10} = \frac{1}{1-x^{10}}$$

$$f(x) \cdot g(x) \cdot h(x) = \frac{1}{(1-x^{5})(1-x^{6})} = \frac{1}{x^{5}} + \frac{1}{x^{$$

as egnittlatik novekedise a parc. tottelse bostais utain elementeto (totalssonois grossos!)

$$T_{n} = T_{n-1} + T_{n-2} + T_{n-3}$$

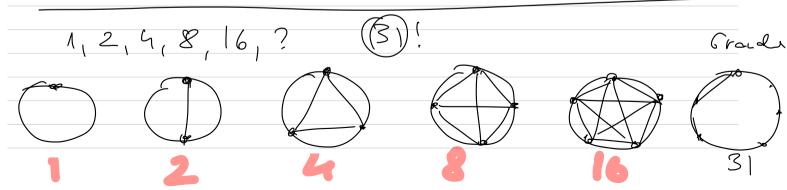
$$G(x) = \frac{1}{1-x-x^{2}-x^{3}}$$

$$T_{n} = T_{n-1} + T_{n-2} + T_{n-3}$$

$$G(x) = \frac{1}{1-x-x^{2}-x^{3}}$$

$$T_{n} = T_{n-1} + T_{n-2} + T_{n-3}$$

$$G(x) = \frac{1}{1-x-x^{2}-x^{3}}$$



PERRIU - SOKSZAT

0 1 2 3 4 5 6 7 8 9 10 11 3 0 2 5 5 7 10 12 17 22

SETTES: n pri A 1

 $P_{h} = P_{h-2} + P_{h-3}$

$$\frac{1}{1-2^{n}} = 1+2^{n}+2^{2n}+2^{3n}+\cdots$$

$$\frac{1}{1-3^{n}} = 1+3^{n}+3^{-2n}+\cdots$$

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$$\frac{1}{1-p^{n}} = 1+\frac{1}{2^{n}} +\frac{1}{3^{n}} +\frac{1}{3^{n}} +\cdots$$

$$\frac{1}{1-p^{n}} = 1+\frac{1}{2^{n}} +\cdots$$

$$\frac{1}{1-p^{$$

(1+x+x2+--) = 1

$$5 = -1: 1 + \frac{1}{2^{-1}} + \frac{1}{3^{-1}} + \dots = 1 + 2 + 7 + 3 - \dots$$

$$5 = -1: -\frac{1}{2^{-1}} + \frac{1}{3^{-1}} + \dots = 1 + 2 + 7 + 3 - \dots$$

11. konu. 12/21

$$1+\alpha+\alpha^2+\ldots=\frac{1}{1-\alpha}$$

1+2+4+-- = -1