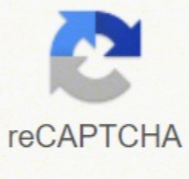




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Fibonacci closed form

The Golden Ratio

Quadratic equation:
The quadratic formula is a generalization of the quadratic formula. It is used to solve quadratic equations of the form $ax^2 + bx + c = 0$. The formula is:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Math Formulas
The quadratic formula is used to solve quadratic equations of the form $ax^2 + bx + c = 0$. The formula is:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

WHAT IS THE CLOSED FORM FOR THE GENERALIZED FIBONACCI SEQUENCE?

Guess that $a_n = r^n$.

Original Equation: $a_n = Aa_{n-1} + Ba_{n-2}$

Reorganize the Equation: $a_n - Aa_{n-1} - Ba_{n-2} = 0$

Use our guess: $r^n - Ar^{n-1} - Br^{n-2} = 0$

Factor: $r^n(r^2 - Ar - B) = 0$

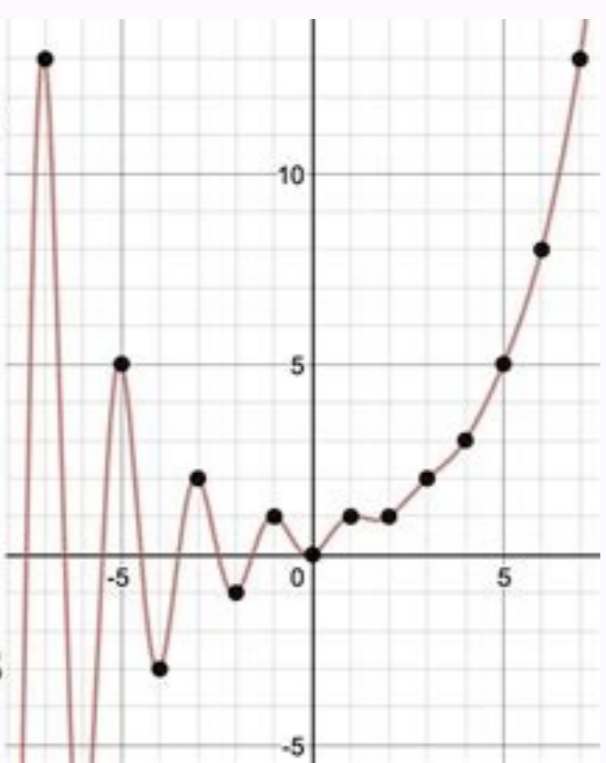
Since $r \neq 0, r^2 - Ar - B = 0$.

Using the quadratic formula:

$$r_1 = \frac{A + \sqrt{A^2 + 4B}}{2}$$
$$r_2 = \frac{A - \sqrt{A^2 + 4B}}{2}$$

Discrete vs. Continuous

$$F = \left\{ \omega_n \mid n \in \mathbb{N} \right\}$$



The Fibonacci Numbers

$$f_3 = \frac{1}{\sqrt{5}} \left(\frac{1 + \sqrt{5}}{2} \right)^3 - \left(\frac{1 - \sqrt{5}}{2} \right)^3$$
$$= \frac{1}{8\sqrt{5}} (1 + 3 \cdot (1)^2 \cdot (\sqrt{5}) + 3 \cdot (1) \cdot (\sqrt{5})^2 + \sqrt{5}^3) - (1 - 3 \cdot (1)^2 \cdot (\sqrt{5}) + 3 \cdot (1) \cdot (\sqrt{5})^2 - \sqrt{5}^3)$$
$$= \frac{1}{8\sqrt{5}} (2 \cdot \sqrt{5}^3 + 6\sqrt{5})$$
$$= \frac{16}{8}$$
$$= 2$$

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

Fibonacci closed form derivation. Fibonacci series closed form. Fibonacci closed form python. Fibonacci closed formula. Fibonacci closed form solution. Fibonacci closed form formula. Closed formula for fibonacci numbers.

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