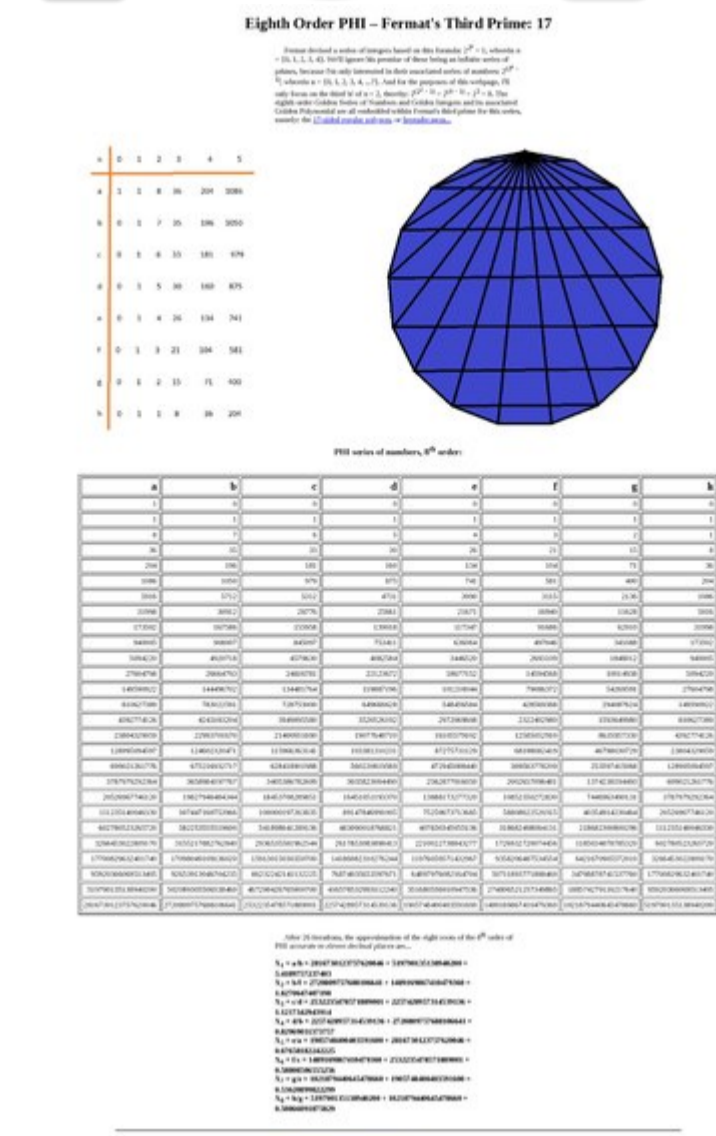


File:Golden Ratio of the 8th order polynomial in one unknown.pdf

From Wikimedia Commons, the free media repository

[File](#) [File history](#) [File usage on Commons](#) [Metadata](#)

Download all sizes
Use this file on the web
Use this file on a wiki
Email a link to this file
Information about reusing



Size of this JPG preview of this PDF file: **385 × 600 pixels**. Other resolutions: **154 × 240 pixels** | **308 × 480 pixels** | **493 × 768 pixels** | **657 × 1,024 pixels** | **2,497 × 3,891 pixels**.

Original file (2,497 × 3,891 pixels, file size: 287 KB, MIME type: **application/pdf**)

File information | **Structured data**

Captions [Edit](#)

English: A Golden Ratio from Fermat's third prime, the integer: 17.

Summary [\[edit \]](#)

Description	English: Fermat's third prime, the number 17, can form an equilateral polygon which contains proportional relations among the lengths of its side and its various diagonals which are the roots of an eighth order polynomial in one unknown: $x^8 + x^7 - 7x^6 - 6x^5 + 15x^4 + 10x^3 - 10x^2 - 4x + 1$ is a Heptadecagon . For comparison, the Golden ratio derived from the proportionalities among the Fibonacci series of numbers forms the additive and multiplicative reciprocal roots of a second order, quadratic polynomial.	
Date	4 January 2023	
Source	Own work	
Author	Vinyasi	

Licensing [\[edit \]](#)

I, the copyright holder of this work, hereby publish it under the following license:

This file is licensed under the [Creative Commons Attribution-Share Alike 4.0 International](#) license.

You are free:

- to share** – to copy, distribute and transmit the work
- to remix** – to adapt the work

Under the following conditions:

- attribution** – You must give appropriate credit, provide a link to the license, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use.
- share alike** – If you remix, transform, or build upon the material, you must distribute your contributions under the [same or compatible license](#) as the original.

File history

Click on a date/time to view the file as it appeared at that time.

	Date/Time	Thumbnail	Dimensions	User	Comment
current	09:11, 5 January 2023		2,497 × 3,891 (287 KB)	Vinyasi (talk contribs)	Uploaded own work with UploadWizard

You cannot overwrite this file.

File usage on Commons

There are no pages that use this file.

Metadata

This file contains additional information such as Exif metadata which may have been added by the digital camera, scanner, or software program used to create or digitize it. If the file has been modified from its original state, some details such as the timestamp may not fully reflect those of the original file. The timestamp is only as accurate as the clock in the camera, and it may be completely wrong.

[Show extended details](#)

Categories: [Infinite Golden Ratios](#) | [Regular heptadecagons](#)
Hidden categories: [CC-BY-SA-4.0](#) | [Self-published work](#)

This page was last edited on 8 January 2023, at 01:33.

Files are available under licenses specified on their description page. All structured data from the file namespace is available under the [Creative Commons CC0 License](#); all unstructured text is available under the [Creative Commons Attribution-ShareAlike License](#); additional terms may apply. By using this site, you agree to the [Terms of Use](#) and the [Privacy Policy](#).