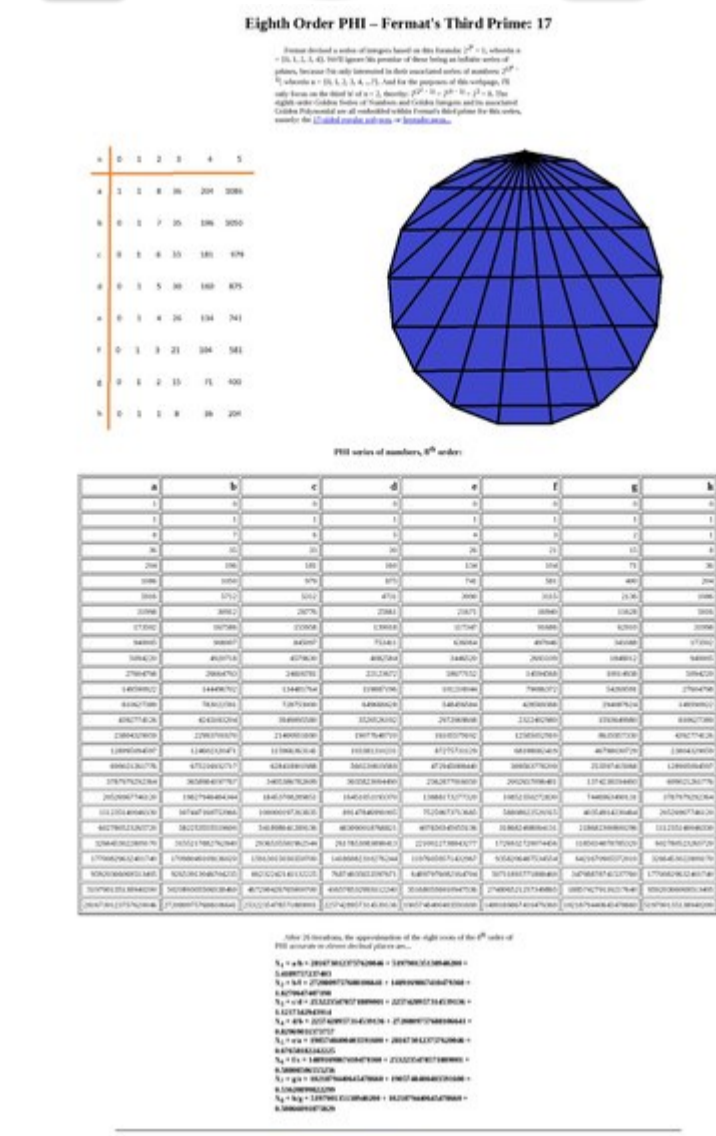


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English: A Golden Ratio from Fermat's third prime, the integer: 17.

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.	<p>The Golden ratio of the eighth order polynomial is a subset of the infinite Range of Golden Ratios.</p>
Date	4 January 2023	
Source	Own work	
Author	Vinyasi	

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