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# File:Data-output-search-range-2-to-100-sacred-cuts-an-extension-of-the-silver-ratio.pdf

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Sacred Square Cuts Among Even-Sided Polygons

>> Search range is from 2 to 100 <<

2p 8-gon  
 Angle No.1, Sin (45 degrees / 2) = 0.76536686473018 / 2  
 Angle No.2, Sin (90 degrees / 2) = 1.41421356237309 / 2  
 Angle No.3, Sin (135 degrees / 2) = 1.497796060257 / 2  
 Angle No.4, Sin (180 degrees / 2) = 2 / 2

When the reciprocal of Angle No.1 (1.30656296487638) is multiplied by Angle No.3 (1.8477906050257), then this equals the length of a diagonal: 2.41421356237309. Likewise, when Angle No.1 (0.76536686473018) is multiplied by the reciprocal of Angle No.3 (0.541196100146197), then this yields the length of another diagonal: -0.41421356237309. And when the first diagonal is divided by the second diagonal, and when the second diagonal is divided by the first diagonal, then this yields the two roots of a quadratic polynomial: (2.41421356237309, -0.41421356237309) = x<sup>2</sup> - 2x - 1

3p 12-gon  
 Angle No.1, Sin (30 degrees / 2) = 0.517638090205041 / 2  
 Angle No.2, Sin (60 degrees / 2) = 1 / 2  
 Angle No.3, Sin (90 degrees / 2) = 1.41421356237309 / 2  
 Angle No.4, Sin (120 degrees / 2) = 1.73205080756888 / 2  
 Angle No.5, Sin (150 degrees / 2) = 1.93185165257814 / 2  
 Angle No.6, Sin (180 degrees / 2) = 2 / 2

When the reciprocal of Angle No.1 (1.93185165257814) is multiplied by Angle No.3 (1.41421356237309), then this equals the length of a diagonal: 2.73205080756888. Likewise, when Angle No.1 (1.41421356237309) is multiplied by the reciprocal of Angle No.5 (0.517638090205041), then this yields the length of another diagonal: -0.732050807568877. And when the first diagonal is divided by the second diagonal, and when the second diagonal is divided by the first diagonal, then this yields the two roots of a quadratic polynomial: (2.73205080756888, -0.732050807568877) = x<sup>2</sup> - 2x - 2.

When the reciprocal of Angle No.1 (1.93185165257814) is multiplied by Angle No.5 (1.93185165257814), then this equals the length of a diagonal: 3.73205080756888. Likewise, when Angle No.1 (0.517638090205041) is multiplied by the reciprocal of Angle No.5 (0.517638090205041), then this yields the length of another diagonal: +0.267949192431123. And when the first diagonal is divided by the second diagonal, and when the second diagonal is divided by the first diagonal, then this yields the two roots of a quadratic polynomial: (3.73205080756888, +0.267949192431123) = x<sup>2</sup> - 4x + 1.

When the reciprocal of Angle No.3 (0.707106781186548) is multiplied by Angle No.5 (1.93185165257814), then this equals the length of a diagonal: 1.36602540378444. Likewise, when Angle No.1 (0.517638090205041) is multiplied by the reciprocal of Angle No.3 (0.707106781186548), then this yields the length of another diagonal: -0.366025403784439. And when the first diagonal is divided by the second diagonal, and when the second diagonal is divided by the first diagonal, then this yields the two roots of a quadratic polynomial:

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Size of this JPG preview of this PDF file: **463 × 599 pixels**. Other resolutions: **185 × 240 pixels** | **371 × 480 pixels** | **593 × 768 pixels** | **1,275 × 1,650 pixels**.

**Original file** (1,275 × 1,650 pixels, file size: 28 KB, MIME type: **application/pdf**, 2 pages)

**File information** | **Structured data**

<b>Captions</b>	<b>Edit</b>
English	Data output from searching for infinite sacred cuts (an extension of the silver ratio).

## Summary [ edit ]

<b>Description</b>	<b>English:</b> This is a plain text-file output resulting from searching for more versions of the sacred cut (which is an extension of the <b>Silver ratio</b> ) made famous by the <b>Pell series of numbers</b> .	
<b>Date</b>	7 January 2023	
<b>Source</b>	Own work	
<b>Author</b>	Vinyasi	

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## File history

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	Date/Time	Thumbnail	Dimensions	User	Comment
current	<b>13:41, 7 January 2023</b>		1,275 × 1,650, 2 pages (28 KB)	Vinyasi (talk   contribs)	Uploaded own work with UploadWizard

You cannot overwrite this file.

## File usage on Commons

The following 2 pages use this file:

- File:First and only sacred cut of octagon.svg
- File:Search-for-sacred-cuts-an-extension-of-the-silver-ratio-v2c PERL-code-saved-as-a-text-file.pdf

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