File:Search-for-silver-ratios-v2b PERL-code.pdf

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```
#!c:\users\...[your path]...\perl.exe

# Table of Sacred Cuts of the Square, by Vinyasi.
# Alias, searches for more silver ratios beyond what is commonly known about the Pell ratio.
# This file was originally formed on: 13 Dec. 2003 but whose principle
# was discovered earlier on a 1k RAM PC sometime between 1994 and 1997.
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# Originally downloadable from: http://vinyasi.mayashastra.org/book/zip/sacred_square.zip
# Archived at: https://web.archive.org/web/20051029163755/ (this link is continued to next line...)
# http://vinyasi.mayashastra.org/book/zip/sacred_square.zip
# But currently downloadable from:
# http://vinyasi.info/Infinite%20Angel%20of%20Golden%20Ratios/ (this link is continued to next line...)
# original%20research%20during%201994%20to%201997/

# use ">>" for appending to file or use ">" for erasing file and rewriting to it
open(OUT, ">", "data.txt") or die "open $data.txt failed: $!";

#print "Content-Type: text/html\n\n";

#<html><head><title>

print OUT "Sacred Square Cuts Among Even-Sided Polygons", "\n\n";

#</title>

use constant PI => 4 * atan2 1, 1;

$prynt = 1;
$shift = 100000;
# minimum search value for primes
$start = 2;
# maximum to search for primes which meet the criteria for a silver ratio; usually defaults to 5
$limit = 100;
# accuracy of search to this many digits
$safelimit = 10;

#<body bgcolor='black' text='white'><big>
#<center><h2>Sacred Square Cuts Among Even-Sided Polygons</h2></center>

print OUT "Search range is from ", $start, " to ", $limit, "\n\n";

for($x1 = $start; $x1 <= $limit; $x1++) { # even sides
  $prynt = 1;
  $mod = "false";
  for($x2 = $start; $x2 <= sqrt($x1); $x2++) {
    if($x1 % $x2 == 0) {
      $mod = "true";
      last; }}

  if($mod eq "false") {
    $read = "";
    $tot_sides = $x1 * 4; # even sides
    $readout = "\n", $x1. "p ". $tot_sides. "-Gon\n";
    $num_ang = $tot_sides / 2; # even sides
    $ang = 360 / $tot_sides; # even sides
    for($x3 = 1; $x3 <= $num_ang; $x3++) { # even sides
      $angle = $ang * $x3;
      $sin[$x3] = 2 * sin(PI * $angle / 360); # even sides
      $readout .= "Angle No.". $x3. ", Sin (". (int(int($angle * $shift + 1) / $shift));
      $readout .= " degrees / 2) = ". $sin[$x3]. " / 2\n"; }
      for($x4 = 1; $x4 <= $num_ang; $x4++) { # even sides
        for($x5 = ($x4 + 1); $x5 <= $num_ang; $x5++) { # even sides
          for($x7 = 1; $x7 <= $num_ang; $x7++) { # even sides
  $prynt = 1;
            for($x8 = ($x7 + 1); $x8 <= $num_ang; $x8++) { # even sides
              for($alt_sign = -1; $alt_sign <= 1; $alt_sign += 2) {
                $bsign = "- ";
                $csign = "+ ";
                $sin2sign = "+ ";
              for($alt1 = -1; $alt1 <= 1; $alt1 += 2) {
                for($alt2 = -1; $alt2 <= 1; $alt2 += 2) {
                  $alt3 = $alt1 * (-1);
                  $alt4 = $alt2 * (-1);
```

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Original file (1,275 × 1,650 pixels, file size: 36 KB, MIME type: **application/pdf** , 2 pages)

File information Structured data

Captions Edit

English The definition for the Silver ratio is expanded to include more versions.

Summary [edit]

Description	**English:** Using PERL installed on a 64-bit Windows operating system, a non-exhaustive search was performed using this code. It was discovered that there are three different sets of Sacred cuts which are extensions of the Silver ratio made famous by the Pell series.
Date	13 December 2003
Source	Own work
Author	Vinyasi

Sacred cuts v2b - command prompt output

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current	**20:32, 5 January 2023**		1,275 × 1,650, 2 pages (36 KB)	Vinyasi (talk | contribs)	Uploaded own work with UploadWizard

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Categories: Sacred cut | Irrational numbers | Ratios | Created with perl code

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