

# Pohon Keluarga Kita (*Math Genealogy*)

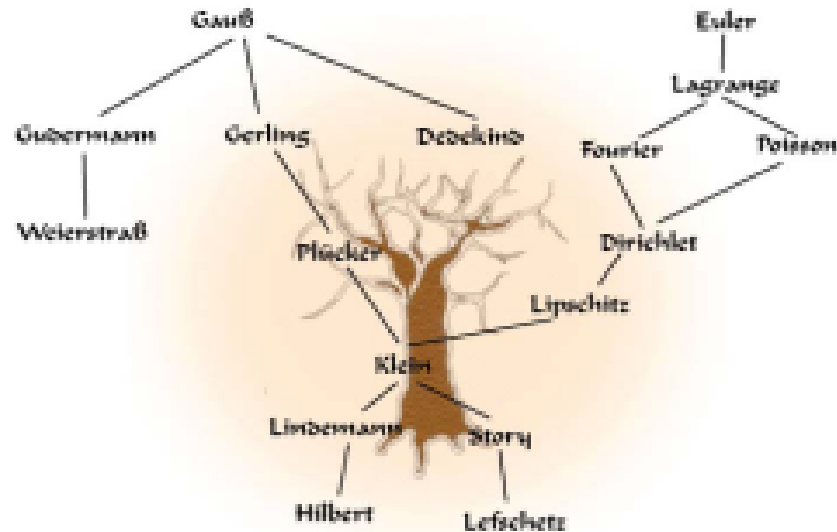
Hendra Gunawan  
20 Desember 2014



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 Fargo, North Dakota 58108-6050



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## Hendra Gunawan

[MathSciNet](#)

Ph.D. University of New South Wales 1992



Dissertation: *Maximal Functions and Harmonic Analysis*

Mathematics Subject Classification: 42—Fourier analysis

Advisor: [Michael George Cowling](#)

Students:

Click [here](#) to see the students listed in chronological order.

Name	School	Year	Descendants
<a href="#">Eridani Campanato</a>	Institut Teknologi Bandung	2005	
<a href="#">Sumaneng Gazali</a>	Institut Teknologi Bandung	2012	
<a href="#">Endang Ruswaman</a>	Padjadjaran University	2010	
<a href="#">Alba Sihwaningrum</a>	Institut Teknologi Bandung	2010	

According to our current on-line database, Hendra Gunawan has 4 [students](#)  
 and 4 [descendants](#).

We welcome any additional information.

If you have additional information or corrections regarding this mathematician, please use the [update form](#). To submit students of this mathematician, please use the [new data form](#), noting this mathematician's MGP ID of 103120 for the advisor ID.

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## Michael George Cowling

[MathSciNet](#)

Ph.D. [Flinders University of South Australia](#) 1974



Dissertation: *Spaces  $A_{p,q}$  and  $L^p$ - $L^q$  Fourier Multipliers*

Advisor: [Garth I. Gourevy](#)

Students:

Click [here](#) to see the students listed in chronological order.

Name	School	Year	Descendants
<a href="#">Abdul A. Khafari</a>	University of New South Wales	2005	
<a href="#">Brian Dacorogna</a>	University of New South Wales	1995	
<a href="#">Hendra Gunawan</a>	University of New South Wales	1992	4
<a href="#">Rupert McCrum</a>	University of New South Wales	2007	
<a href="#">Wfried Ehas</a>	University of New South Wales	1997	
<a href="#">Keith Rogers</a>	University of New South Wales	2004	
<a href="#">Robert Tannart</a>	University of New South Wales	2008	
<a href="#">Benjamin Warhurst</a>	University of New South Wales	2005	

According to our current online database, Michael Cowling has [8 students](#) and [12 descendants](#).

We welcome any additional information.

If you have additional information or corrections regarding this mathematician, please use the [update form](#). To submit students of this mathematician, please use the [new data form](#), noting this mathematician's MGP ID of 75710 for the advisor ID.

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# Mathematics Genealogy Project

## Garth Ian Gaudry

[MathSciNet](#)

Ph.D. [Australian National University](#) 1965



Dissertation: *Quasimeasures and Multiplier Problems*

Mathematics Subject Classification: 43—Abstract harmonic analysis

Advisor: [Robert Edmund Edwards](#)

Student:

Name	School	Year	Descendants
<a href="#">Michael Grewing</a>	Flinders University of South Australia	1974	12

According to our current on-line database, Garth Gaudry has [1 student](#) and [13 descendants](#).

We welcome any additional information.

If you have additional information or corrections regarding this mathematician, please use the [update form](#). To submit students of this mathematician, please use the [new data form](#), noting this mathematician's MGP ID of 57370 for the advisor ID.

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North Dakota State University  
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Fargo, North Dakota 58108-6050



# Mathematics Genealogy Project

## Robert Edmund Edwards

[MathSciNet](#)

Ph.D. University of London 1951



Dissertation: *Theory of Normed Rings, and Translations in Function Spaces*

Advisor 1: [Jacob Linnel Bakst Gerner](#)

Students:

Click [here](#) to see the students listed in chronological order.

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Name	School	Year	Descendants
<a href="#">Lynette Bloom</a>	Australian National University	1979	
<a href="#">Walker Bloom</a>	Australian National University	1974	
<a href="#">Anthony Dooley</a>	Australian National University	1977	11
<a href="#">Graham Elton</a>	Australian National University	1968	1
<a href="#">Desmond Feamly-Sander</a>	Australian National University	1963	2
<a href="#">Garth Gaudry</a>	Australian National University	1965	13
<a href="#">John Price</a>	Australian National University	1970	2
<a href="#">Jeffery Sanders</a>	Australian National University	1975	

According to our current on-line database, Robert Edwards has 8 [students](#) and 37 [descendants](#).

We welcome any additional information.

If you have additional information or corrections regarding this mathematician, please use the [update form](#). To submit students of this mathematician, please use the [new data form](#), noting this mathematician's MGP ID of 42237 for the advisor ID.

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## Jacob Lionel Bakst Cooper

[Biography](#) [MathSciNet](#)

D.Phil. University of Oxford 1940



Dissertation: *Theory And Application Of Fourier Integrals*

Advisor: [Edward Charles Titchmarsh](#)

Students:

Click [here](#) to see the students listed in chronological order.

Name	School	Year	Descendants
<a href="#">Robert Edwards</a>	University of London	1951	37
<a href="#">Carlos Finau</a>	University of London	1978	1
<a href="#">Ron Larhem</a>	University of London	1980	
<a href="#">James Stewart</a>	University of Toronto	1957	2

According to our current on-line database, Jacob Cooper has 4 [students](#) and 44 [descendants](#).

We welcome any additional information.

If you have additional information or corrections regarding this mathematician, please use the [update form](#). To submit students of this mathematician, please use the [new data form](#), noting this mathematician's MGP ID of 18575 for the advisor ID.

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## Edward Charles Titchmarsh

[Electronic MathSciNet](#)

M.A. [University of Oxford](#)



Dissertation:

Advisor: [G. H. \(Godfrey Harold\) Hardy](#)

Students:

Click [here](#) to see the students listed in chronological order.

Name	School	Year	Descendants
<a href="#">Frederick Atkinson</a>	University of Oxford	1939	40
<a href="#">Peter Bush</a>	University of Oxford	1961	1
<a href="#">Nalini Chakraverty</a>	Calcutta University	1961	
<a href="#">Richard Cooke</a>		1928	8
<a href="#">Jacob Cooper</a>	University of Oxford	1940	44
<a href="#">William Evans</a>	University of Oxford	1966	11
<a href="#">W. Norris Everitt</a>	University of Oxford	1966	34
<a href="#">Andrew Guinand</a>	University of Oxford		4
<a href="#">P. Heywood</a>	University of Oxford	1952	
<a href="#">Moray Macphail</a>	University of Oxford	1936	2
<a href="#">John MeLond</a>	University of Oxford	1959	53
<a href="#">Szu-Hoa Min (蔣錫鎰)</a>	University of Oxford	1947	37
<a href="#">Bajji Prasad</a>	Université de Paris	1932	25
<a href="#">Douglas Sears</a>			25
<a href="#">S. M. Shah</a>	University of London	1942	90

According to our current on-line database, Edward Titchmarsh has 15 [students](#) and 389 [descendants](#).

We welcome any additional information.



## G. H. (Godfrey Harold) Hardy

[Biography](#) [MathSciNet](#)

M.A. University of Cambridge 1903



Dissertation:

Advisor 1: [Augustus Edward Hough Love](#)

Advisor 2: [Edmund Taylor Whittaker](#)

Students:

Click [here](#) to see the students listed in chronological order.

Name	School	Year	Descendants
<a href="#">M. Ahmed</a>	University of Edinburgh	1931	
<a href="#">A. Bassani</a>	University of Oxford	1936	
<a href="#">Lancelotti Rosanoff</a>	University of Oxford	1930	93
<a href="#">Mary Cartwright</a>	University of Oxford	1930	139
<a href="#">Sydney Chapman</a>	University of Cambridge	1911	104
<a href="#">Irving Good</a>	University of Cambridge	1941	3
<a href="#">Mihirad Haslam-Jones</a>	University of Oxford	1928	66
<a href="#">E. Infont</a>	University of Oxford	1929	12
<a href="#">Frank Morley</a>	University of Oxford	1923	
<a href="#">A. Cyril Offord</a>	University of Cambridge	1936	34
<a href="#">P. Owen</a>	University of Oxford	1933	
<a href="#">Edgar Phillips</a>	University of Oxford	1933	
<a href="#">Harry Pitt</a>	University of Cambridge	1938	7
<a href="#">R. Probst</a>	University of Oxford	1934	
<a href="#">Richard Rado</a>	University of Cambridge	1935	280
<a href="#">Srinivasa Ramanujan</a>	University of Cambridge	1913	1
<a href="#">Robert Rankin</a>	University of Cambridge	1940	11
<a href="#">K. Ananda Rau</a>	University of Cambridge	1919	229
<a href="#">Frank Smithies</a>	University of Cambridge	1937	894
<a href="#">Doris H. Spencer</a>	University of Cambridge	1939	807
<a href="#">P. L. Srivastava</a>	University of Oxford	1927	
<a href="#">Edward Titchmarsh</a>	University of Oxford		389
<a href="#">T. Vijayaraghavan</a>	University of Oxford	1929	27
<a href="#">Edward Wright</a>	University of Oxford		1





# Mathematics Genealogy Project

## Hendra Gunawan

[MathSciNet](#)

Ph.D. [University of New South Wales](#) 1992



Dissertation: *Maximal Functions and Harmonic Analysis*

Mathematics Subject Classification: 42—Fourier analysis

Advisor: [Michael George Cowling](#)

Students:

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Name	School	Year Des
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<a href="#">Samseng Gazali</a>	Institut Teknologi Bandung	2012
<a href="#">Endang Ruswaman</a>	Padjadjaran University	2010
<a href="#">Alha Sihwaningrum</a>	Institut Teknologi Bandung	2010

Kapan  
Punya  
Anak?

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Fargo, North Dakota 58108-6050



Young men should  
prove theorems,  
old men should  
write books.

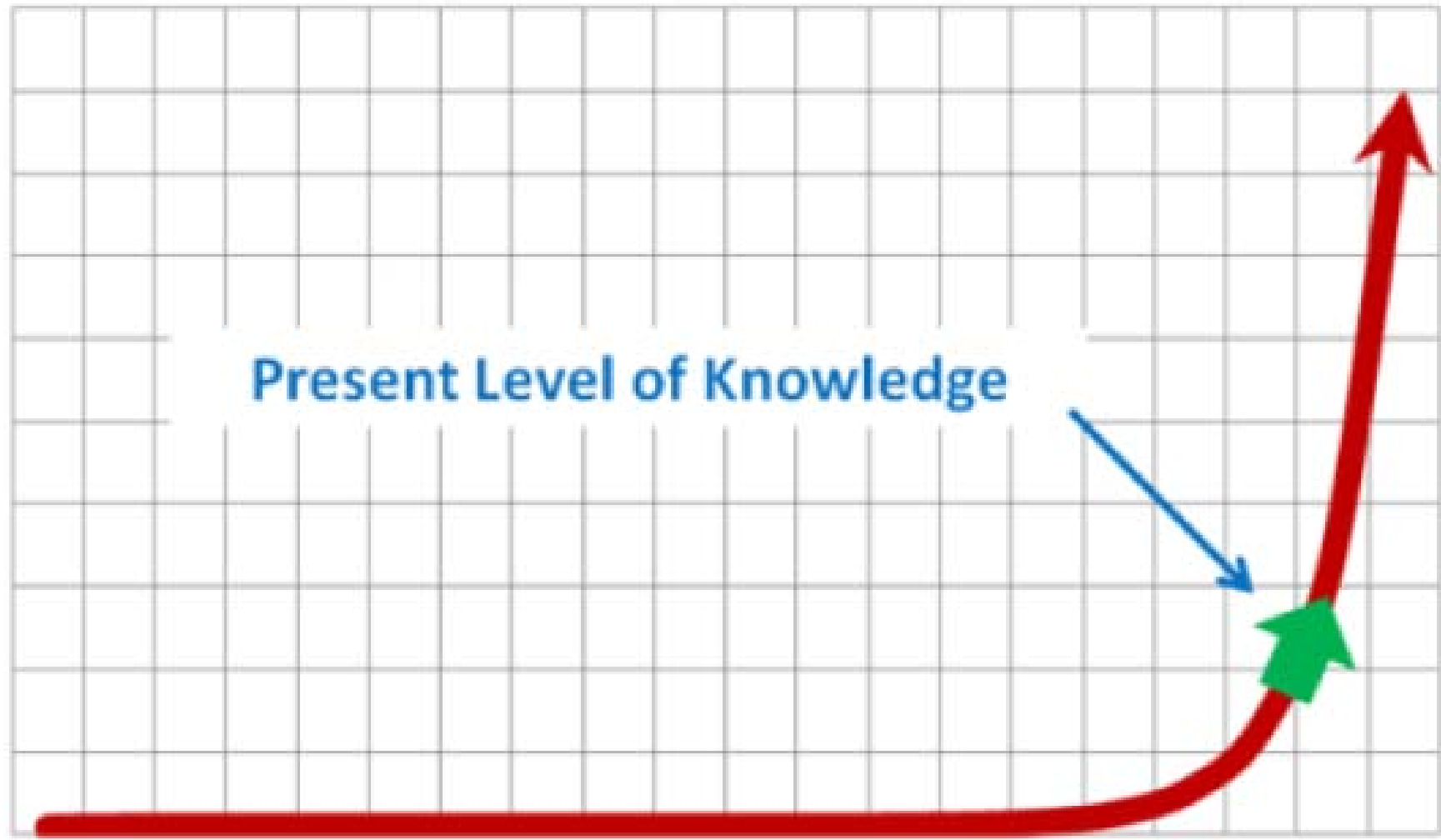
— G. H. Hardy

# Menulis Buku

Hendra Gunawan

20 Desember 2014

**Knowledge** ↑



**Present Level of Knowledge**

**Time** →

# LINGKARAN

**Menguak Misteri Bilangan  $\pi$ ,  
Bangun Datar dan Bangun Ruang  
Terkait dengan Lingkaran**

Dalam buku ini, penulis menguraikan bagaimana rumus luas lingkaran diperoleh 2300 tahun yang lalu oleh Archimedes, dan bagaimana para matematikawan sejak saat itu menaksir nilai bilangan  $\pi$  yang menyatakan rasio keliling lingkaran terhadap diameternya. Tidak hanya itu, dalam buku ini dibahas pula berapa banyak sisi dan titik sudut pada lingkaran. Banyak yang beranggapan bahwa lingkaran mempunyai tak terhingga sisi dan tak terhingga pula titik sudut. Benar-kah demikian? Buku ini memberikan jawabannya.

Selain mengulas beberapa keistimewaan lingkaran, buku ini juga membahas bangun datar lainnya yang mempunyai kemiripan dengan lingkaran. Bila anda juga penasaran dengan segi tak terhingga yang memiliki tak terhingga titik sudut, anda akan menemukannya dalam buku ini. Pada bagian ter-akhir buku ini, penulis membahas bangun ruang yang, baik secara langsung maupun tak langsung, terkait dengan lingkaran, antara lain bola, silinder, kerucut, dan torus, beserta sifat-sifatnya. Anda akan diperkenalkan pula dengan sejumlah bangun ruang yang unik, seperti tetrahedron Reuleaux, bola berduri, dan serpihan saju Koch 3D.



**Hendra Gunawan**, lahir di Bandung pada 1964. Setelah mendapatkan gelar sarjana dalam bidang Matematika (1987), ia menjadi dosen di Institut Teknologi Bandung sejak 1988. Ia melanjutkan studinya hingga meraih gelar doktor dalam bidang Matematika dari *The University of New South Wales*, Sydney, (1992). Sejak 2006, ia diangkat sebagai Guru Besar di Fakultas MIPA, Institut

Teknologi Bandung. Selain mengajar, ia sering menulis di media massa, dan mengasuh dua blog, yaitu "AnakBertanya" (<http://anakbertanya.com>) dan "Indonesia 2045" (<http://indonesia2045.com>)

[www.grahailmu.co.id](http://www.grahailmu.co.id)

ISBN:

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LINGKARAN

Menguak Misteri Bilangan  $\pi$ , Bangun Datar dan Bangun Ruang Terkait dengan Lingkaran

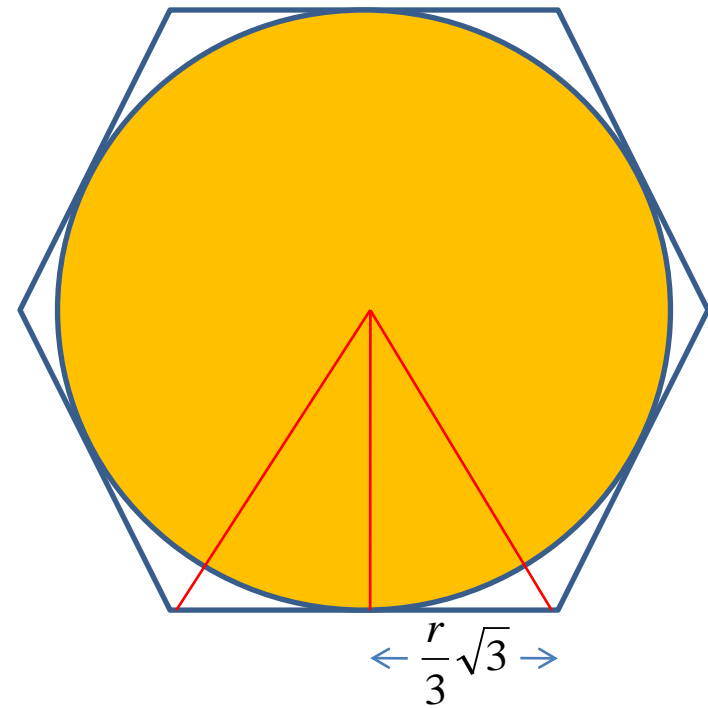
Hendra Gunawan



Hendra Gunawan

# LINGKARAN

**Menguak Misteri Bilangan  $\pi$ ,  
Bangun Datar dan Bangun Ruang  
Terkait dengan Lingkaran**

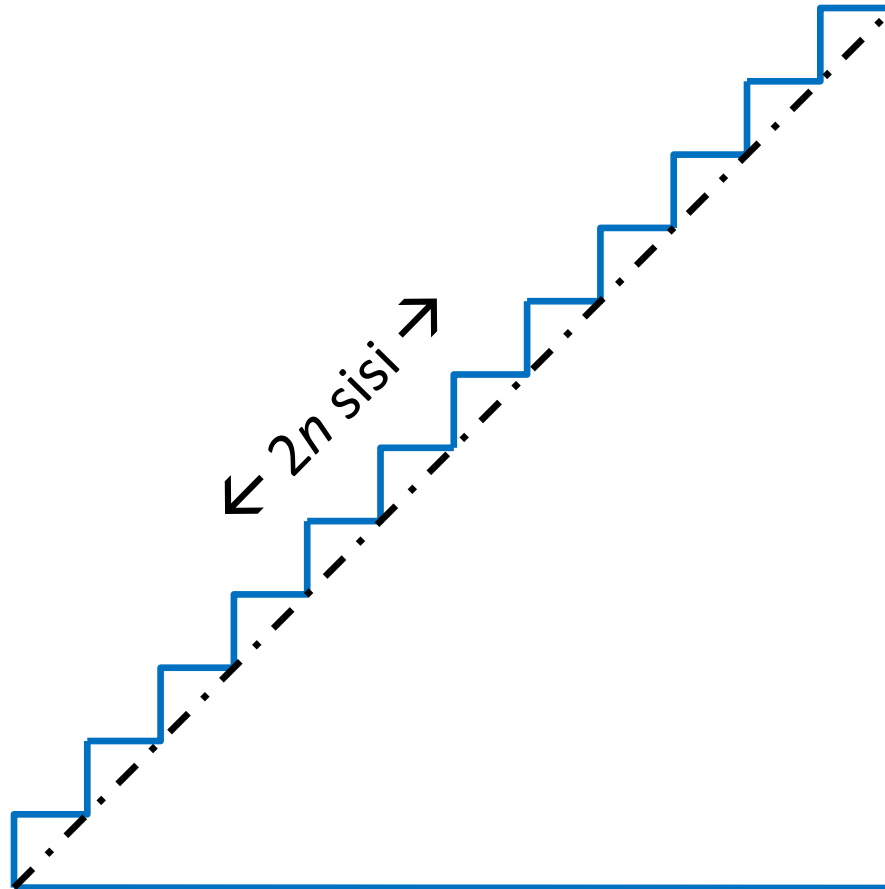


SEJAK TAHUN 2013 SAYA BELAJAR LAGI...

## TENTANG LINGKARAN

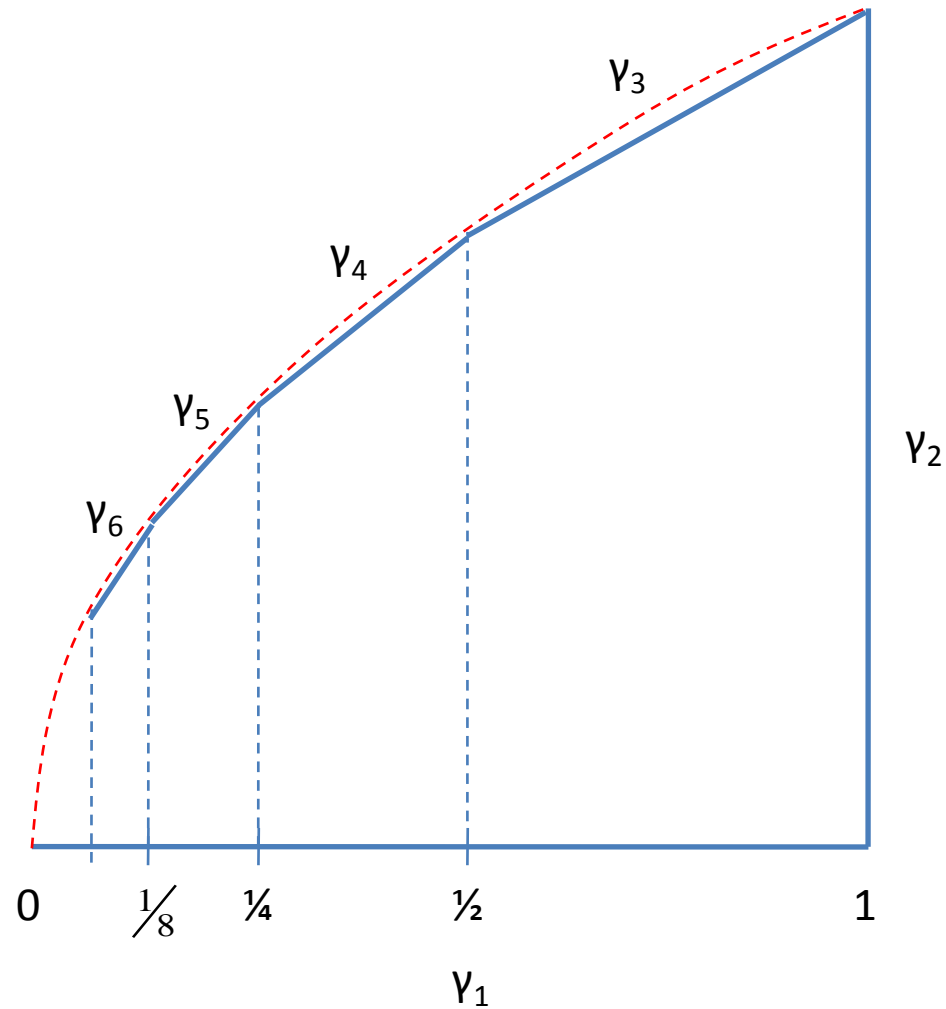
Berapa banyak sisi & titik sudut pada lingkaran?

# Segi Tak Terhingga?

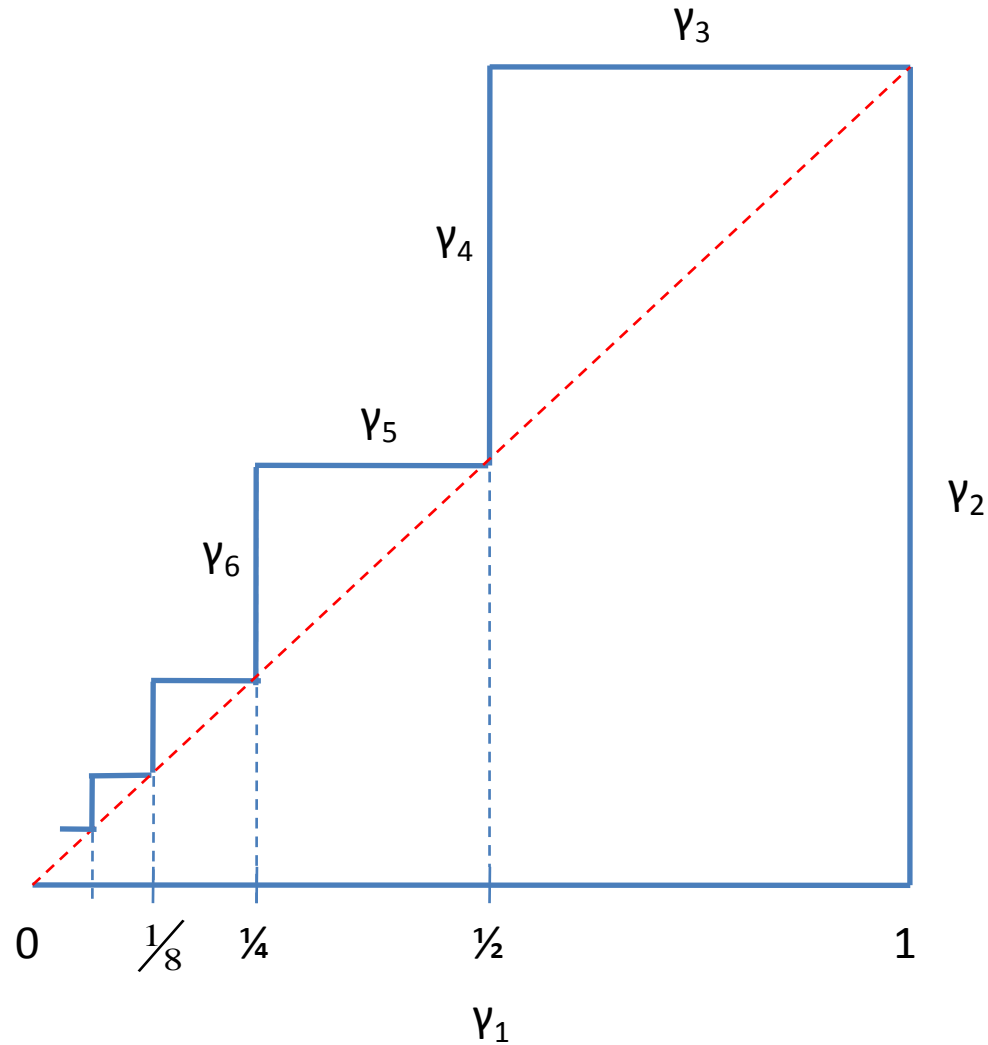




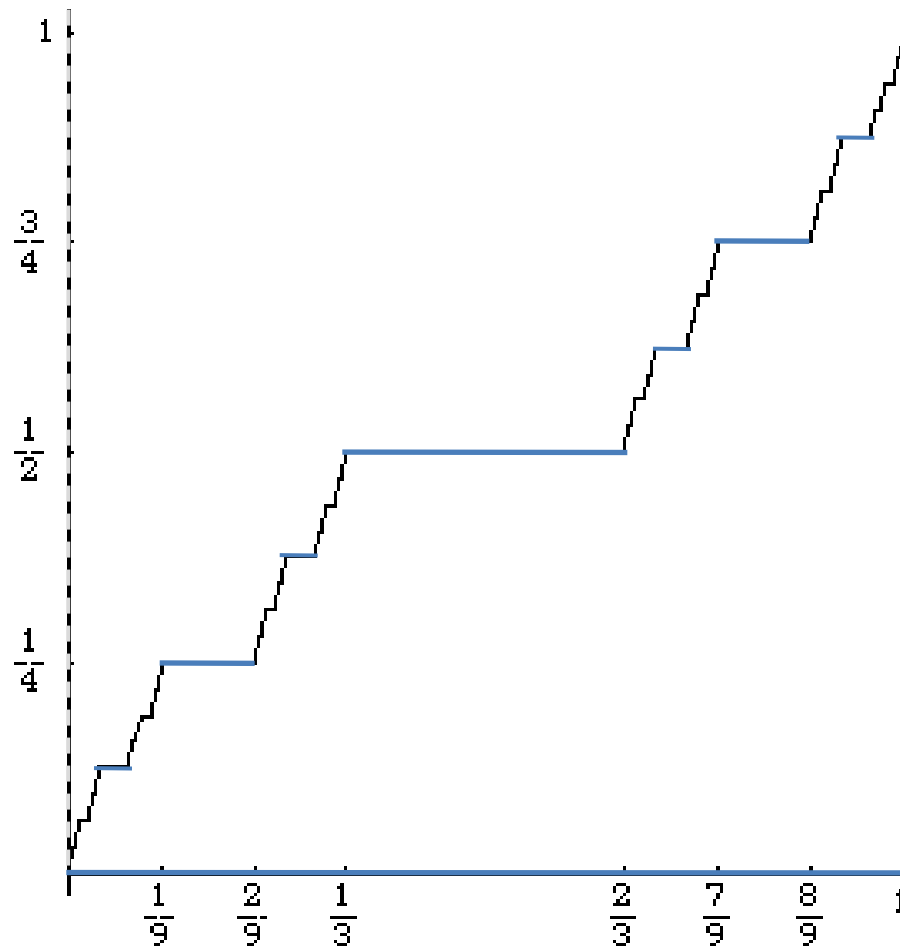
# Segi Tak Terhingga!



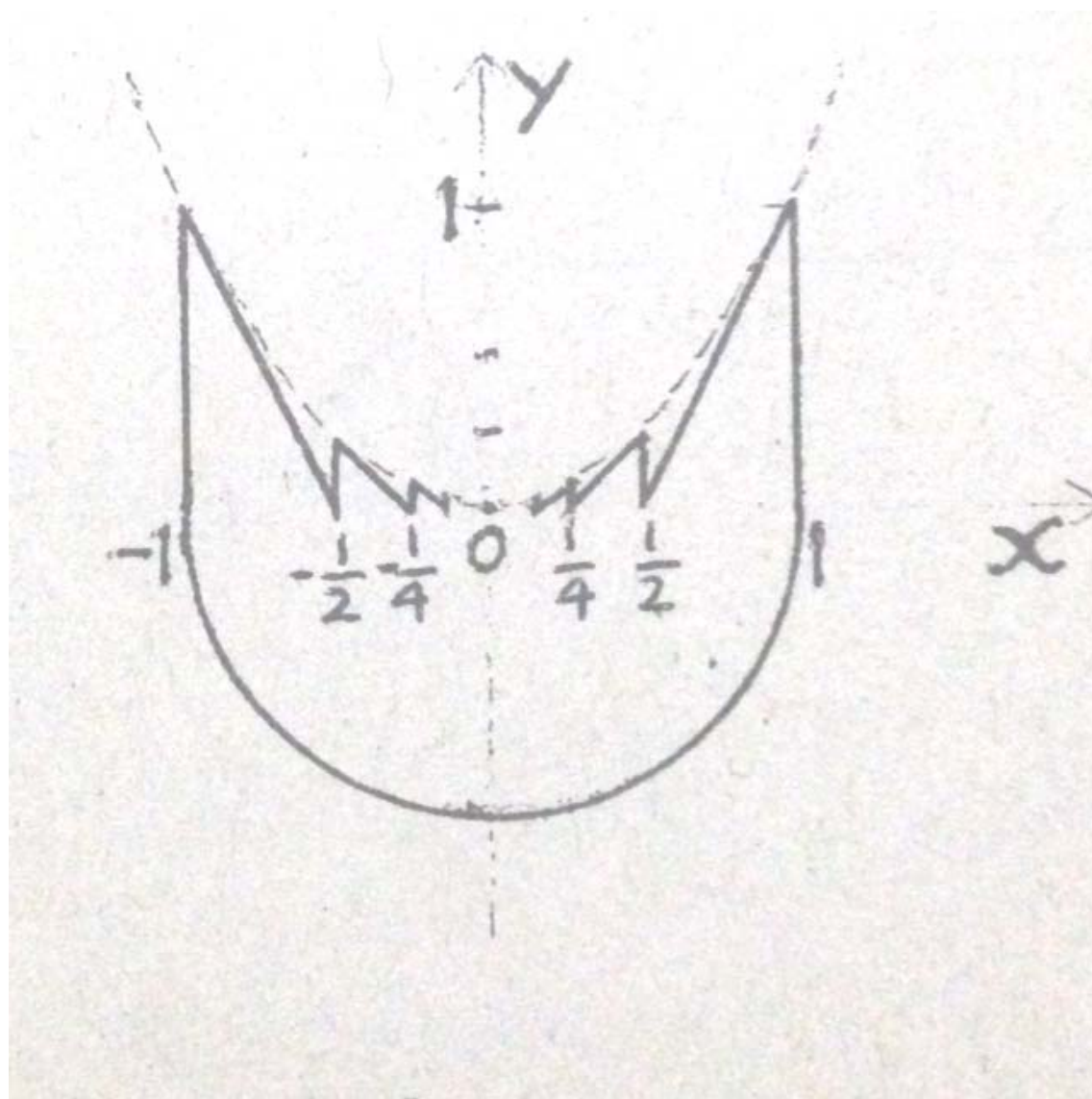
# Segi Tak Terhingga!



# Segi Tak Terhingga!

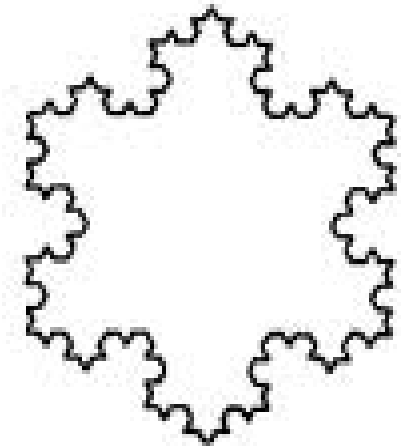
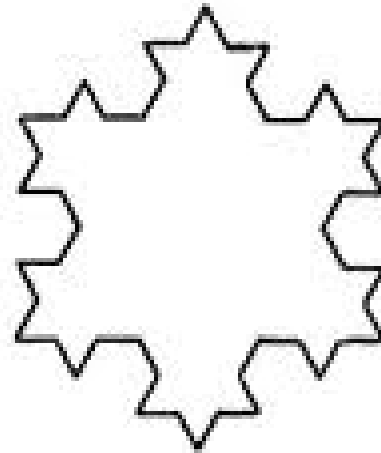
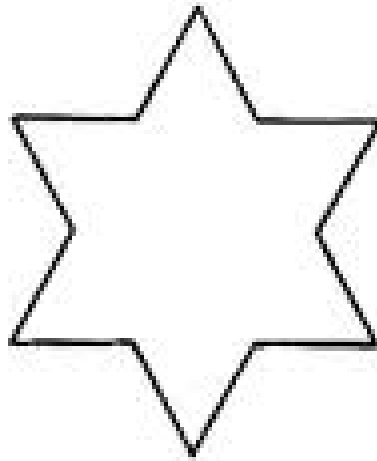
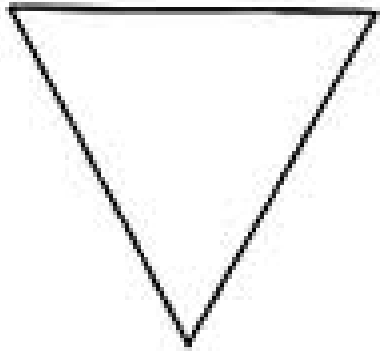


# Segi Tak Terhingga!



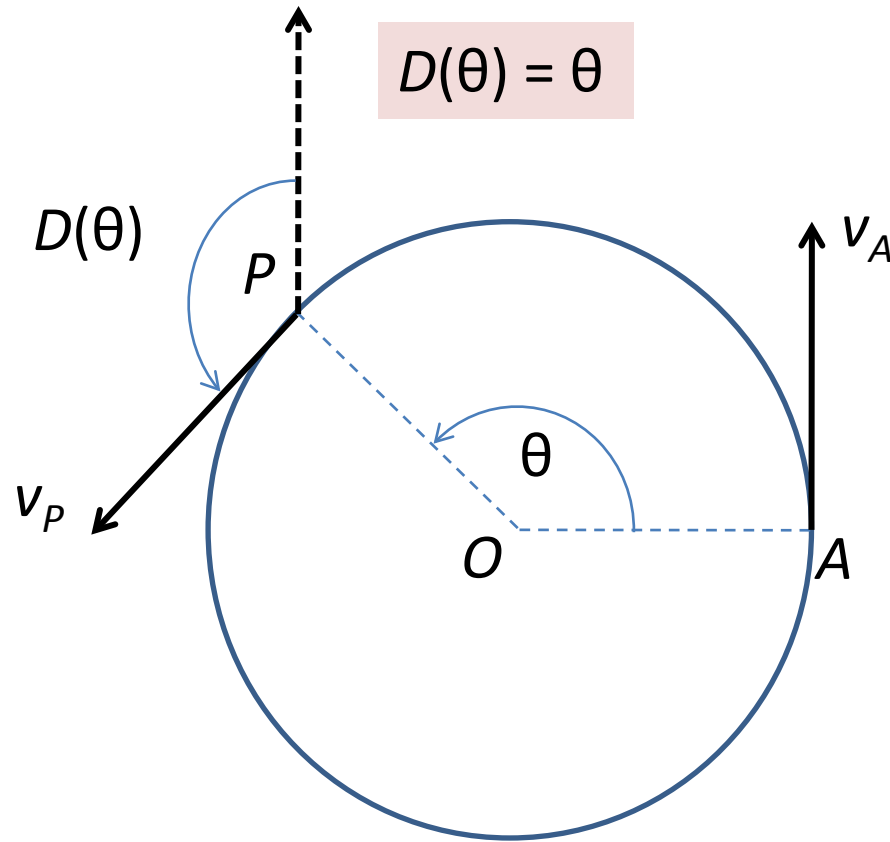
# Serpihan Salju Koch

[[www.fractalcurves.com](http://www.fractalcurves.com)]

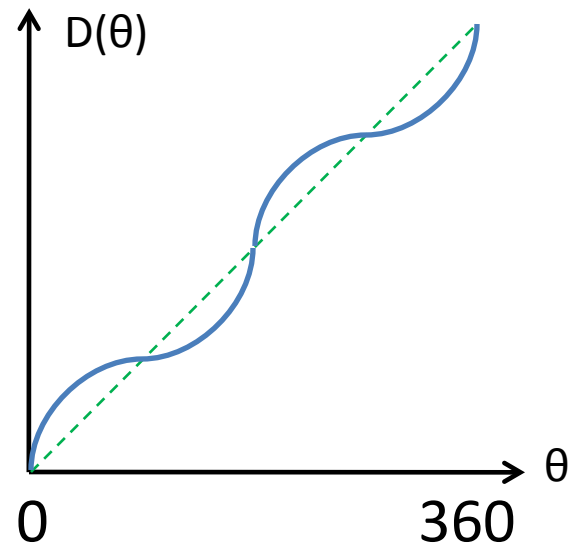
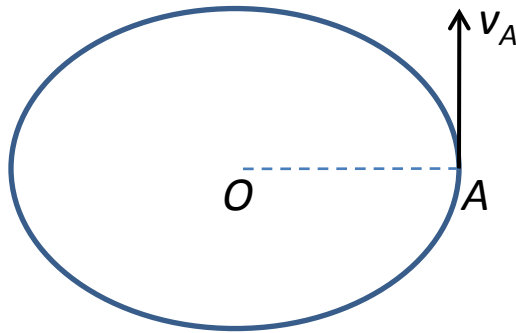


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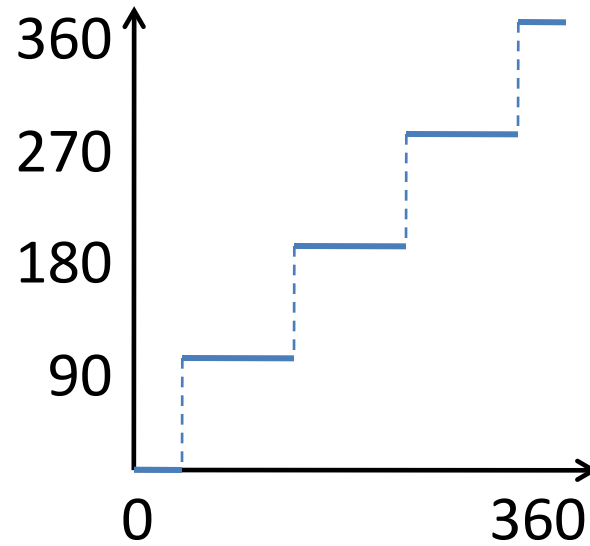
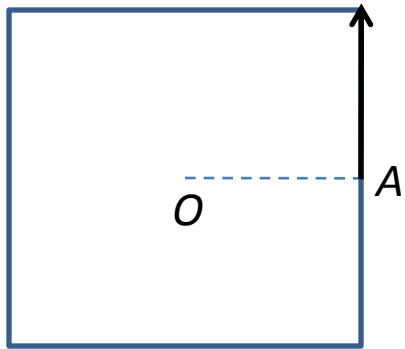
# Sudut Deviasi Lingkaran



# Grafik Sudut Deviasi Elips



# Grafik Sudut Deviasi Persegi





NEXT BOOK?

**“MENUJU TAK TERHINGGA”**

**KITA SATU KELUARGA.  
AYO SALING MENYEMANGATI!**