Welcome back, Valentin Albillo. You last visited: Yesterday, 10:2	B PM Current time: 0	5-01-2019, 01:52 A
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P Forums / HP Calculators (and very old HP Computer RC#003- New Year 2019 Special	s) / General Forun	n 🔻 / [VA]
ages (2): <u>« Previous</u> 1 2	Threaded	Mode Linear Mod
[VA] SRC#003- New Year 2019 Special		Post: #2
01-28-2019, 09:34 PM	5	
pier4r ៉ Senior Member	Posts: Joined:	1,963 Nov 2014
RE: [VA] SRC#003- New Year 2019 Special		
Albert Chan Wrote: ⇒	(01-28-	-2019 02:46 PM)
I PM Thomas last week for how his estimated iterations w	•	2019 02110111)
Sadly, I still don't understand the geometric intuition I know that is difficult to gauge whether a question is of g explanations may help many (also those future readers!) a would ask in the public thread rather than in PM.		
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I know that is difficult to gauge whether a question is of gexplanations may help many (also those future readers!) a would ask in the public thread rather than in PM. Wikis are great, Contribute :) Wikis are great, Contribute :) D1-29-2019, 01:43 AM	nd not only you, so voi Posts:	if I were you I TE 🛃 🚿 REPOR Post: #3
I know that is difficult to gauge whether a question is of gexplanations may help many (also those future readers!) a would ask in the public thread rather than in PM. Wikis are great, Contribute :) Wikis are great, Contribute :) 1-29-2019, 01:43 AM Prosperi	nd not only you, so voi Posts:	if I were you I TE CAR SREPOR Post: #1 3,280
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I know that is difficult to gauge whether a question is of gexplanations may help many (also those future readers!) a would ask in the public thread rather than in PM. Wikis are great, Contribute :) Wikis are great, Contribute :) Mikis are great, Cont	nd not only you, so velocity Posts: Joined:	if I were you I TE CAR POR Post: #2 3,280 Dec 2013
I know that is difficult to gauge whether a question is of gexplanations may help many (also those future readers!) a would ask in the public thread rather than in PM. Wikis are great, Contribute :) Wikis are great, Contribute :) Mikis are great, Con	nd not only you, so Posts: Joined: (01-28- he link! I certainly r provides MUCH clained was taught. Having etter insight into how I'm always eager to	if I were you I TE CAR Post: #2 3,280 Dec 2013 -2019 08:17 PM) hever learned rity for the a better "feel" of w to resolve o learn stuff
I know that is difficult to gauge whether a question is of gexplanations may help many (also those future readers!) a would ask in the public thread rather than in PM. Wikis are great, Contribute :) Wikis are great, Contribute :) Main and a second sec	nd not only you, so Posts: Joined: (01-28- he link! I certainly r provides MUCH clained was taught. Having etter insight into how I'm always eager to	if I were you I TE CAR Post: #2 3,280 Dec 2013 -2019 08:17 PM) hever learned rity for the a better "feel" of w to resolve o learn stuff

[VA] SRC#003- New Year 2019 Special	
Thomas Klemm	Posts: 1,449 Joined: Dec 2013
RE: [VA] SRC#003- New Year 2019 Special	
rprosperi Wrote: ⇒	(01-29-2019 01:43 AM)
I will also check out some other videos in the same series.	
I bet you will like: Visualizing quaternions An explorable video series	
PM FIND	🤞 QUOTE 🔥 🔗 REPORT
01-29-2019, 04:04 AM	Post: #2
rprosperi 💩 Senior Member	Posts: 3,280 Joined: Dec 2013
RE: [VA] SRC#003- New Year 2019 Special	
Thomas Klemm Wrote: ⇒	(01-29-2019 01:59 AM)
rprosperi Wrote: →	(01-29-2019 01:43 AM)
I will also check out some other videos in the same series.	
I bet you will like: Visualizing quaternions An explorable video series Thanks, I'll check these out as well. After the original above, I stumbled onto this video, with the first	explanation of Euler's
An explorable video series Thanks, I'll check these out as well. After the original above, I stumbled onto this video, with the first Identity I can honestly say I understood. So, while it now has a ti beautiful, and I can say I understand it.	-
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An explorable video series Thanks, I'll check these out as well. After the original above, I stumbled onto this video, with the first Identity I can honestly say I understood. So, while it now has a ti beautiful, and I can say I understand it. Bob Prosperi O2-08-2019, 08:46 PM Albert Chan	iny bit less magic, it's still Image: Control of the second state Imag
An explorable video series Thanks, I'll check these out as well. After the original above, I stumbled onto this video, with the first Identity I can honestly say I understood. So, while it now has a til beautiful, and I can say I understand it. Bob Prosperi © EMAIL © PM	iny bit less magic, it's still Image: Control of the second state Imag
An explorable video series Thanks, I'll check these out as well. After the original above, I stumbled onto this video, with the first Identity I can honestly say I understood. So, while it now has a til beautiful, and I can say I understand it. Bob Prosperi EMAIL PM O2-08-2019, 08:46 PM Albert Chan Senior Member RE: [VA] SRC#003- New Year 2019 Special Tried doing √3 with this matrix power method, noticed a pattern: let M = {{1,3}, {1, 1}} M^2 = {{3*1+1, 3*(1+1)}, {1+1, 3*1+1}} = {{4,6}, {2,4}}	iny bit less magic, it's still QUOTE CAR REPOR Post: #2 Posts: 624 Joined: Jul 2018

[VA] SR	C#003- New Year 2019 Special
Doing the average of ratios, for M^6: $\sqrt{3} \sim 1$ 1.730769) = 1.732051	¹ /2(208/120 + 360/208) ~ ¹ /2(1.733333 +
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02-08-2019, 11:36 PM	Post: #2
Albert Chan 🔓 Senior Member	Posts: 624 Joined: Jul 2018
RE: [VA] SRC#003- New Year 2019 Special	
Albert Chan Wrote: ⇒	(02-08-2019 08:46 PM)
Tried doing $\sqrt{3}$ with this matrix power metholet M = {{1,3}, {1, 1}}	d, noticed a pattern:
$M^{2} = \{\{3^{*}1^{+}1, 3^{*}(1^{+}1)\}, \{1^{+}1, 3^{*}1^{+}1\}\}$ $M^{3} = \{\{3^{*}2^{+}4, 3^{*}(2^{+}4)\}, \{2^{+}4, 3^{*}2^{+}4\}\}$	
To prove that the ratio converge to $\sqrt{3}$, noti	ced above actually does Farey Fraction:
M^1: $\sqrt{3}$ between 1/1 and 3/1, so (1+3)/(1+ M^2: $\sqrt{3}$ between 4/2 and 3/(4/2) = 6/4, so M^3:	
Newton's method, does the same thing, but o	converge faster: $x = \frac{1}{2}(x + \frac{3}{x})$
1: $\frac{1}{2}(1/1 + 3*1/1) = 2/1 = 2$ 2: $\frac{1}{2}(2/1 + 3*1/2) = 7/4 = 1.75$ 3: $\frac{1}{2}(7/4 + 3*4/7) = 97/56 \sim 1.732143$ 4: $\frac{1}{2}(97/56 + 3*56/97) = 18817/10864 \sim 1.732143$	73205081
	d at least 6 more !) are $\sqrt{3}$ continued fraction
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02-09-2019, 03:55 AM (This post was last modified: 02	2-09-2019 04:41 AM by Albert Chan.) Post: #2
Albert Chan 占 Senior Member	Posts: 624 Joined: Jul 2018
RE: [VA] SRC#003- New Year 2019 Special	
The idea of only doing only *last* row work f	for 3x3 matrix too. 😛
Let M = {{k, n, n}, {1, k, n}, {1, 1, k}}	
-> M^p = {{c, n*a, n*b}, {b, c, n*a}, {a, b, c}}, for some a, b,	C
-> For M^(p+1), last row = {k*a+b+c, n*a	a+k*b+c, n*a+n*b+k*c}
Example: this is result of M^200 last row rati	ios:
Code:	
lua> k, n = math.pi, 2019 lua> a, b, c = 1, 1, k	

5/1/2019

[VA] SRC#003- New Year 2019 Special

: a, b, c = (k*a+b+c)/n, a+(k*b+c)/	′n, a+b+k*c∕n	
: end lua> =a, b, c		
2.916424658351884e-212 3.686063969271537	e-211 4.658809733574611e	-210
lua> =b/a, c/b	_	
12.638982319380704 12.63898231938528	38	
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ges (2): « Previous 1 2		🤸 NEW REPLY
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er(s) browsing this thread: Valentin Albillo*		
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um software: MyBB, © 2002-2019 MyBB Group.		