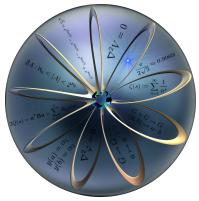

planetmath.org

Math for the people, by the people.

PlanetMath font sandbox

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Let the definition of a failure, in the context of Riemann Hypothesis, be a non-root. Let s_0 be a non-root. Then $s = \psi(s_0) = s_0 + k \times$ $psi(s_0))$ is a failure function since $\zeta(\Psi(s_0)$ generates infinitely many failures. Here k belongs to $\mathbb{N}$.

Proof: There is no loss of generality in takining $k = 1$. By Taylor's theorem $\zeta(s_0 + \zeta(s_0)) = e^{\zeta(s_0)} - 1$ since, by asumption, $\zeta(s_0)$ is not equal to 0.

Poliñac's formula is

$$\prod_{i=1}^{\pi(n)} p_i \sum_{j=1}^{\log_{p_i} n} \lfloor \frac{n}{{p_i}^j} \rfloor,$$

Ich ziemlich muß hab eine Wiener Strüdel!

"God made the integers, and all the rest is the work of man."

— Leopold Kronecker

"A mathematician is a device for turning coffee into theorems."

— Pal Erdős

"Mathematics possesses not only truth, but supreme beauty — a beauty cold and austere, like that of sculpture."

— Bertrand Russell

"Mathematics may be defined as the subject in which we never know what we are talking about, nor whether what we are saying is true."

— Bertrand Russell

"As far as the laws of mathematics refer to reality, they are not certain, and as far as they are certain, they do not refer to reality."

— Albert Einstein

"I had a feeling once about Mathematics, that I saw it all — Depth beyond depth was revealed to me — the Byss and Abyss. I saw, as one might see the transit of Venus or even the Lord Mayor's Show, a quantity passing through infinity and changing its sign from plus to minus. I saw exactly why it happened and why the tergiversation was inevitable: and how the one step involved all the others. It was like politics. But it was after dinner and I let it go!"

— Winston Churchill

"Math, my dear boy, is nothing more than the lesbian sister of biology."

— Peter Griffin, *Family Guy*, "When You Wish Upon A Weinstein"

"How about we fire up the old Segway and find a nice quiet field to do long division in? I mean, a nice quiet field *in which to* do long division. Sorry,

sorry, everybody."

— Neil Goldman, *Family Guy*, "8 Simple Rules for Buying My Teenage Daughter"

Consider $\sqrt{1+\sqrt{1+\sqrt{1+\sqrt{1+\sqrt{1+\ldots}}}}}$, etc., in TEX as `$\sqrt{1+\sqrt{1+\sqrt{1+\sqrt`

In TEX and LATEX we may write $3^{4/7}$ or $3^{4\div 7}$ or preferably, $3^{\frac{4}{7}}$.

Stanley Skewes in 1933 gave the lower bound $e^{e^{e^{79}}}$, approximately $10^{10^{10^{34}}}$.

Wolfgang Berg moved to the States in 1934, and Wacław Sierpiński followed in 1938.

$\mathbb{ABCDEFGHIJKLMNOPQRSTUVWXYZ}$

$(1+i)(1-i)$ or $(1+\beth)(1-\beth)$

Stanisław Haček on the properties of $\hat{x}\bar{y}$

Stanisław Haček on the properties of $\hat{x}\bar{y}$

Øystein Ore or Øystein Ore

$3 * 4$, $f * g$, $f * g$

$\sqrt[3]{27} = 3$

```
 (defun factorial) (n)
   (cond ((= n 0) 1)
         (t (* n (factorial (- n 1))))))
```

$a \not| b$ or $a \nmid b$

brocard's CONJECTURE and subAnalytic set

```
 #include <planetMath.h>
while flag == True {
  value = oper1 % oper2;
  counter++;
}
```

```
while flag == True {
  value = oper1 % oper2;
  counter++;
}
```

$\gcd(25, 50)$

or

Also,

$$\sum_{i=0}^{4} \binom{8}{i} = 163.$$