A Glorious solution to Home-F ***or*** *Don Juan's tilting at Windmills* or THE LIGHTS ARE ON *and* SOMEBODY IS HOME

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0.0.1 Notation for F1

Suppose we have maps $g, f_n: \mathbb{R} \to \mathbb{R}$ that are ***PB***, "piecewise beautiful". (Later, we will define ***quasi-PB*** functions.) Use $f_n \searrow g$ to mean that

$$\forall x: \quad n \mapsto f_n(x) \quad \text{is decreasing}\,. \tag{1}$$

Moreover, $\lim_{n\to\infty} f_n(x) = g(x)$.

Please carefully prove the following theorem. Notice that we will want to

a: Always wash our hands, before proving.

b: Make our bed, and put away the suppertime dishes. Possibly also prove that

$$e = m \cdot c^2 \qquad \text{and} \tag{2}$$

$$\sum_{k=3}^{\infty} \left[\frac{3}{4}\right]^k > \pi - 3\,, \tag{3}$$

as well as other physics facts.

c: Give a café latté to some old guy in class.

Now, plugging (**??**) into (**??**) and applying liberal doses of the infamous Pythagorean theorem, we shall prove that black is white on the second, 7^{th}, 15^{th}, 23^{rd} and 31^{st} of each month whose name has an *even* number of letters.

Theorem 1. *If* $x^{5^{f''(x)}} < \sum_{k=3}^{\infty} \left[\frac{3}{4}\right]^k$ *and car-drivers use turn signals, then*

$$\boxed{\log_{4212}(x) \quad \geq \quad e^{\cos(x^{\log_7(x)})}}$$

on alternate Tuesdays.

Proof. I hope so. ☐

Remark 2. *Notice that our proof used that*

i:: Most children either walk to school or carry their lunch.

ii:: If you aren't part of the problem —then good for you!

iii:: See (**??**) *for details.*

Note also that

[I] most mathematical statements

[II] . . . written hastily . . .

[III] . . . contain rerors. Refer to (**??**) *and* (**??**) *for the Whole Scoop.*

To sum up:

ThThThat's All, Folks!