Intrigued?

When 4444^{4444} is written in decimal notation, the sum of its digits is A. Let B be the sum of the digits of A. Find the sum of the digits of B.

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We work together to do math, real math, for fun;
with pizza, cake, or cookies.

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Good With Numbers?

Evaluate

$$\sin\left(\frac{\pi}{11}\right)\sin\left(\frac{2\pi}{11}\right)\cdots\sin\left(\frac{10\pi}{11}\right)$$

exactly.

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Like Math?

Can three points with integer coornidates in the plane be vertices of an equilateral triangle? What about in three dimentions?

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Enjoy Puzzles?

Can you show how to express any positive fraction as a sum of distinct positive reciprocal whole numbers?

For example,

$$7/3 = 1/1 + 1/2 + 1/3 + 1/4 + 1/5 + 1/20$$

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Curious?

Can the portion of any parabola inside a circle of radius 1 have a length greater than 4?

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Got a Calculator?

Find the 2000th digit in the square root of $N = 11\ldots1$, where N contains 1998 digits, all of them 1's.

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