In memory of Justynka, my wife

FORMULAS

'The laws of nature are but the mathematical thoughts of God.'
Euclid

•••

FORMULA No.

W02

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We are not mathematicians, but we love mathematics and create formulas ourselves.

'No other science boosts the faith in the strength of the human spirit like mathematics.'
Hugo Steinhaus

1 WEEK = 7 DAYS = 7 FORMULAS

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D021

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$$\sum_{k=1}^{k=\infty} \frac{3 \times (k+1)^k - k^{k-1}}{k^{k-1} \times (k+1)^k \times 3^k} = 1 \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{\left(k^2+2\times k+7\right)\times 6^{k+1}}{k\times(k+1)\times(k+7)!} = \frac{1}{140} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{7 \times k^3 - (k+1)^2}{7^k \times k!} = 1$$

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D024

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{sin\left(\frac{(3 \times k - 1) \times \pi}{2 \times 3^{k+1} \times k!}\right)}{cos\left(\frac{\pi}{2 \times 3^{k+1} \times k!}\right) \times cos\left(\frac{\pi}{2 \times 3^{k} \times (k-1)!}\right)} = \frac{\sqrt{3}}{3}$$

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FORMULA No.

D025

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3^{k-1} + 2 \times k \times 3^{k-2} + 1}{k \times (k+1) \times (3^{k-2} + 1) \times (3^{k-1} + 1)} = \frac{3}{4}$$

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FORMULA No.

D026

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$$\sum_{k=1}^{k=\infty} \frac{2^{k-1} \times \left[(k+1)^4 - 2 \times k^3\right]}{k^3 \times (k+1)^3 \times (k+1)!} = 1 \qquad k \in N$$

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FORMULA No.

D027

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} sin\left(\frac{(k+2)\times\pi}{(k+3)!}\right)\times\left[3\times sin\left(\frac{(k+3)!-3\times(k+4)}{3\times(k+3)!}\times\pi\right)+\sqrt{3}\times cos\left(\frac{(k+3)!-3\times(k+4)}{3\times(k+3)!}\times\pi\right)\right]=\frac{3}{2}$$

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We invite you every week and every day to our website www.and-just-math.com

Thanks for:
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