In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W05

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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.

D051

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$$\sum_{k=1}^{k=\infty} \frac{\left(k^2+4\times k+5\right)\times 2^{k+2}}{k\times(k+1)\times(k+5)!} = \frac{1}{15} \qquad k \in N$$

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D052

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times (k+2)^8 - (k+1)^7}{(k+2)! \times [(k+1) \times (k+2)]^7 \times 2^{k-8}} = 1$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{sin\left(\frac{(k-1)\times\pi}{12\times k!}\right)}{cos\left(\frac{\pi}{12\times k!}\right)\times cos\left(\frac{\pi}{12\times(k-1)!}\right)} = 2-\sqrt{3}$$

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{2^{2\times k-2} \times (k-1)^2}{k \times (k+1) \times (k+1)!} = 1 \qquad k \in N$$

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$$k \in N$$

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

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

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$$\sum_{k=1}^{k=\infty} \frac{5 \times (k+1)^{k-2} - k^{k-3}}{k^{k-3} \times (k+1)^{k-2} \times 5^{k}} = 1 \qquad k \in N$$

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Thanks for:
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