In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W46

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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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$$k \in N$$

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

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

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} sin\left(\frac{k \times \pi}{8 \times (k+1)!}\right) \times cos\left(\frac{(k+2) \times \pi}{8 \times (k+1)!}\right) = \frac{\sqrt{2}}{4}$$

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{\sin\left(\frac{5\times\pi}{12\times k\times(k+1)}\right)}{\sin\left(\frac{(6\times k+1)\times\pi}{12\times(k+1)}\right)\times\sin\left(\frac{(6\times k+5)\times\pi}{12\times k}\right)} \qquad k\in N$$

$$= 2+\sqrt{3}$$

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$$\sum_{k=1}^{k=\infty} \frac{k^3 + 7 \times k^2 + 13 \times k + 5}{(k+1)! \times (k+4)!} = \frac{3}{4!} \qquad k \in N$$

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