In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W03

www.and-just-math.com
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.

D031

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

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D032

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

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D033

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{2^{3\times k-3} \times \left(k^2 - 6 \times k + 1\right)}{k \times (k+1) \times (k+1)!} = 1 \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2^k + k \times 2^{k-1} + 5}{k \times (k+1) \times (2^{k-1} + 5) \times (2^k + 5)} = \frac{1}{6}$$

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FORMULA No.

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} sin\left(\frac{k \times \pi}{6 \times (k+1)!}\right) \times \left[3 \times sin\left(\frac{2 \times (k+1)! - k - 2}{6 \times (k+1)!} \times \pi\right) + \sqrt{3} \times cos\left(\frac{2 \times (k+1)! - k - 2}{6 \times (k+1)!} \times \pi\right)\right] = \frac{3}{2}$$

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FORMULA No.

D037

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{7 \times k + 13}{(k+2)! \times 7^k} = \frac{1}{2}$$

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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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