In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W31

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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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k+3}{(k+4)!} = \frac{1}{24}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} 3^{k-1} \times sin^3\left(\frac{\pi}{8 \times 3^{k-2}}\right) = \frac{9 \times \pi + 4 \times \sqrt{2-\sqrt{2}}}{32}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{21 \times k! \times \left(k^2 + k + 1\right) + 2^k}{(21 \times k \times k! + 2^k) \times [21 \times (k+1) \times (k+1)! + 2^{k+1}]} = \frac{1}{23}$$

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$$\prod_{k=1}^{k=\infty} \frac{(k+1)\times(k+5)}{(k+3)^2} = \frac{3}{10} \qquad k \in N$$

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$$k \in N$$

$$\prod_{k=1}^{k=\infty}\left(1-4\times sin^2\left(\frac{2\times\pi}{5^{k+1}}\right)+3,2\times sin^4\left(\frac{2\times\pi}{5^{k+1}}\right)\right)=\frac{5\times\sqrt{10+2\times\sqrt{5}}}{8\times\pi}$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^2 - 14 \times k - 1}{(14 \times k - 13) \times (14 \times k + 1) \times (4 \times k^2 - 1)} = \frac{1}{28}$$

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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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