In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W45

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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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D451

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$$\sum_{k=1}^{k=\infty} sin\left(\frac{9 \times \pi}{8 \times (k^2 + 17 \times k + 72)}\right) \times cos\left(\frac{9 \times (2 \times k^2 + 35 \times k + 153) \times \pi}{8 \times (k+9) \times (k^2 + 17 \times k + 72)}\right) = \frac{\sqrt{2}}{4} \qquad k \in N$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k+4}{(k+5)!} = \frac{1}{120}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{(k-1)\times k-36}{(k+5)^2\times(k+6)^2} = 0 \qquad k \in N$$

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{k^2 + 6 \times k + 6}{k \times (k+1) \times (k+6)!} = \frac{1}{720} \qquad k \in N$$

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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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