In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W43

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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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D431

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$$\sum_{k=1}^{k=\infty} \frac{(k-1) \times k - 25}{(k+4)^2 \times (k+5)^2} = 0 \qquad k \in N$$

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

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

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$$\sum_{k=1}^{k=\infty} arc\ ctg\left(2 \times k \times \left(\sqrt{2} \times k - 1\right)\right) = \frac{3 \times \pi}{8} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{sin\left(\frac{11 \times \pi}{24 \times k \times (k+1)}\right)}{sin\left(\frac{(12 \times k + 1) \times \pi}{24 \times (k+1)}\right) \times sin\left(\frac{(12 \times k - 11) \times \pi}{24 \times k}\right)} \qquad k \in N$$

$$= \sqrt{6} + 2 + \sqrt{3} + \sqrt{2}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{9 \times k^2 - 7 \times k - 1}{(3 \times k - 2) \times (3 \times k + 1) \times (6 \times k - 5) \times (6 \times k + 1)} = \frac{1}{18}$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{6 \times k^2 - 4 \times k - 1}{(4 \times k - 3) \times (4 \times k + 1) \times (4 \times k^2 - 1)} = \frac{1}{8}$$

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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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