In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W40

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.

D401

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$$\sum_{k=1}^{k=\infty} \frac{1}{16 \times k^2 + 8 \times \sqrt{3} \times k - 1} = \frac{2 - \sqrt{3}}{4} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{(k-1) \times k - 16}{(k+3)^2 \times (k+4)^2} = 0 \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{11 \times k! \times \left(k^2 + k + 1\right) + 2^{k+2}}{(11 \times k \times k! + 2^{k+2}) \times [11 \times (k+1) \times (k+1)! + 2^{k+3}]} = \frac{1}{19}$$

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$$\sum_{k=1}^{k=\infty} \frac{(k+2)\times 2^k}{(k+4)!} = \frac{1}{12} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{12 \times k^2 - 10 \times k - 1}{(3 \times k - 2) \times (3 \times k + 1) \times (9 \times k - 8) \times (9 \times k + 1)} = \frac{1}{27}$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\ ctg\left(2 \times k \times \left(2 \times k + \sqrt{3}\right)\right) = \frac{\pi}{12}$$

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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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