In memory of Justynka, my wife

FORMULAS

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

●●●

FORMULA No.

W27

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.

D271

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{25 \times k^2 + 175 \times k + 299}{(5 \times k + 16) \times (5 \times k + 21) \times (k + 3)! \times 5^k} = \frac{1}{126}$$

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$$\sum_{k=1}^{k=\infty} \frac{(2 \times k + 3) \times 7^{k-1}}{2^{k-3} \times (k+5)!} = \frac{1}{15} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{3 \times (k+2)^8 - (k+1)^7}{k! \times [(k+1) \times (k+2)]^8 \times 3^k} = \frac{1}{256} \qquad k \in N$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{5 \times k^2 + 9 \times k + 5}{k \times (k+1) \times (k+1)! \times 5^k} = 1$$

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$$\sum_{k=1}^{k=\infty} \frac{\left(k^2 + 4 \times k - 2\right) \times 5^{k-1}}{(k+1)! \times (k+3)!} = \frac{1}{6} \qquad k \in N$$

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$$k \in N$$

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

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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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