In memory of Justynka, my wife

FORMULAS

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

•••

FORMULA No.

W41

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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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FORMULA No.

D411

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

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$$\sum_{k=1}^{k=\infty} \frac{k^2 + 9 \times k + 19}{(k+6)!} = \frac{1}{144} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{(2 \times k + 9) \times 5^k}{2^{k-4} \times (k+7)!} = \frac{1}{63} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{\left(5^k - 5 \times 2^{2\times k-3} - 2^{2\times k-1}\right) \times 2^{2\times k-1}}{5^{2\times k}} = 1$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[16 \times (k+1)^2 \times (5 \times k! - 3) - 3 \times k] \times k!}{(16 \times k! - 9) \times [16 \times (k+1)! - 9] \times [16 \times (k+2)! - 9]} = \frac{2}{161}$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times [3 \times (k+2) \times k! + 4]}{(k+1)! \times (3 \times k! + 4) \times [3 \times (k+1)! + 4]} = \frac{1}{7}$$

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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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