In memory of Justynka, my wife

FORMULAS

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

●●●

FORMULA No. W37

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.

D371

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{9 \times k^2 - 1}{k!^2 \times 3^{2 \times k}} = 1$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{9 \times k^2 + 99 \times k + 269}{(3 \times k + 16) \times (3 \times k + 19) \times (k + 5)! \times 3^{k-1}} = \frac{1}{760}$$

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$$\sum_{k=1}^{k=\infty} \frac{(7 \times k + 30) \times 5^k}{7^k \times (k+5)!} = \frac{1}{24} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2^{k+1} - 3}{2^{2 \times k}} = 1$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[3 \times (k+1)^2 \times (2 \times k! - 1) - k] \times k!}{(3 \times k! - 1) \times [3 \times (k+1)! - 1] \times [3 \times (k+2)! - 1]} = \frac{1}{10}$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times [(k+2) \times k! + 5]}{(k+1)! \times (k! + 5) \times [(k+1)! + 5]} = \frac{1}{6}$$

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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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