In memory of Justynka, my wife

FORMULAS

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

●●●

FORMULA No.

W51

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.

D511

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$$\sum_{k=1}^{k=\infty} \frac{\left(25 \times k^2 - 9\right) \times 3^{2 \times k - 2}}{k!^2 \times 5^{2 \times k}} = 1 \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{(7 \times k + 46) \times 3^{k+1}}{7^{k-1} \times (k+7)!} = \frac{1}{80} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{42 \times k^3 + 145 \times k^2 - 33 \times k - 121}{(3 \times k + 8) \times (3 \times k + 11) \times (k + 1)!} = 1$$

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$$\sum_{k=1}^{k=\infty} \frac{3 \times k^2 + 15 \times k + 19}{(k+2)^3 \times (k+3)^3} = \frac{1}{27} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{(k^2 + 6 \times k - 2) \times 7^{k-1}}{(k+1)! \times (k+5)!} = \frac{1}{120} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times [2 \times (k+2) \times k! + 5]}{(k+1)! \times (2 \times k! + 5) \times [2 \times (k+1)! + 5]} = \frac{1}{7}$$

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$$\sum_{k=1}^{k=\infty} \frac{9 \times k^2 + 21 \times k + 13}{(3 \times k + 2)^3 \times (3 \times k + 5)^3} = \frac{1}{1125} \qquad k \in N$$

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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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