In memory of Justynka, my wife

FORMULAS

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

●●●

FORMULA No.

W38

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.

D381

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$$\sum_{k=1}^{k=\infty} \frac{\left(9 \times k^2 - 49\right) \times 7^{2 \times k - 2}}{k!^2 \times 3^{2 \times k}} = 1 \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{25 \times k^2 + 125 \times k + 149}{(5 \times k + 11) \times (5 \times k + 16) \times (k+2)! \times 5^k} = \frac{1}{32}$$

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$$\sum_{k=1}^{k=\infty} \frac{(7 \times k + 16) \times 5^{k-1}}{7^k \times (k+3)!} = \frac{1}{6} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{k^2 + 6 \times k + 4}{(k+1)! \times (k+5)!} = \frac{1}{120} \qquad k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times [(k+2) \times k! + 6]}{(k+1)! \times (k! + 6) \times [(k+1)! + 6]} = \frac{1}{7}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{18 \times k^3 + 59 \times k^2 - 14 \times k - 49}{(2 \times k + 5) \times (2 \times k + 7) \times (k + 1)!} = 1$$

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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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