In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W09

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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D091

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

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$$\sum_{k=1}^{k=\infty} \frac{\left(k^2+k+6\right)\times 6^{k+1}}{k\times(k+1)\times(k+6)!} = \frac{1}{20} \qquad k \in N$$

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$$k \in N$$

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

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{5^k + 4 \times k \times 5^{k-1} + 2}{k \times (k+1) \times (5^{k-1} + 2) \times (5^k + 2)} = \frac{1}{3}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{3 \times k^2 + 11 \times k + 7}{(k+3)! \times 3^k} = 1 \qquad k \in N$$

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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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