In memory of Justynka, my wife

FORMULAS

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

•••

FORMULA No.

W08

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.

D081

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$$\sum_{k=1}^{k=\infty} \frac{k^2 + 23 \times k + 131}{(k+13)!} = \frac{1}{13 \times 11!} \qquad k \in N$$

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D082

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

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$$\sum_{k=1}^{k=\infty} \frac{(k^2 + 3 \times k + 6) \times 2^{2 \times k + 2}}{k \times (k+1) \times (k+6)!} = \frac{1}{45} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{5 \times (k+2)^6 - (k+1)^5}{(k+2)! \times [(k+1) \times (k+2)]^5 \times 5^k} = \frac{1}{64}$$

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{5 \times k^2 + 19 \times k + 13}{(k+3) \times (k+2)! \times 5^k} = \frac{1}{3} \qquad k \in N$$

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FORMULA No.

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$$k \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

We invite you every week and every day to our website www.and-just-math.com

Thanks for:
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