In memory of Justynka, my wife

FORMULAS

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

•••

FORMULA No.

W21

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.

D211

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$$\sum_{k=1}^{k=\infty} \frac{k^2 + 13 \times k + 41}{(k+8)!} = \frac{1}{8 \times 6!} \qquad k \in N$$

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FORMULA No.

D212

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$$\sum_{k=1}^{k=\infty} \frac{(3 \times k + 14) \times 7^k}{3^{k-2} \times (k+7)!} = \frac{1}{80} \qquad k \in N$$

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{2 \times k^{\frac{1}{k}} - (k+1)^{\frac{1}{k+1}} - 1}{2^k} = 0 \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{(k^2 + 4 \times k - 14) \times 17^{k-1}}{(k+1)! \times (k+3)!} = \frac{1}{6} \qquad k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k!^2 \times k \times [2 \times (k+1)! - k - 2]}{[5 \times (k+1)!^2 - 2 \times (k+1)! + 1] \times [5 \times k!^2 - 2 \times k! + 1]} = \frac{1}{20}$$

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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