In memory of Justynka, my wife

FORMULAS

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

•••

FORMULA No.

W22

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.

D221

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{49 \times k^2 + 343 \times k + 587}{(7 \times k + 22) \times (7 \times k + 29) \times (k + 3)! \times 7^k} = \frac{1}{174}$$

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$$\sum_{k=1}^{k=\infty} \frac{(3 \times k + 8) \times 7^{k-1}}{3^{k-1} \times (k+5)!} = \frac{1}{40} \qquad k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[5 \times (k+1)^2 \times (4 \times k! - 3) - 3 \times k] \times k!}{(5 \times k! - 3) \times [5 \times (k+1)! - 3] \times [5 \times (k+2)! - 3]} = \frac{1}{14}$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{5 \times k^2 + 29 \times k + 21}{(k+4) \times (k+5) \times (k+1)! \times 5^k} = \frac{1}{5}$$

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D227

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$$\sum_{k=1}^{k=\infty} \frac{(k^2 + 3 \times k - 15) \times 17^{k-1}}{(k+1)! \times (k+2)!} = \frac{1}{2} \qquad k \in N$$

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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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