In memory of Justynka, my wife

FORMULAS

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

●●●

FORMULA No.

W44

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.

D441

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$$\sum_{k=1}^{k=\infty} \frac{\left(9 \times k^2 - 16\right) \times 2^{4 \times k - 4}}{k!^2 \times 3^{2 \times k}} = 1 \qquad k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{14 \times k^3 + 31 \times k^2 - 10 \times k - 25}{(2 \times k + 3) \times (2 \times k + 5) \times (k + 1)!} = 1$$

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{\left(k^2+5\times k-3\right)\times 7^{k-1}}{(k+1)!\times(k+4)!} = \frac{1}{24} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[12 \times (k+1)^2 \times (11 \times k! - 7) - 7 \times k] \times k!}{(12 \times k! - 7) \times [12 \times (k+1)! - 7] \times [12 \times (k+2)! - 7]} = \frac{4}{85}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times [5 \times (k+2) \times k! + 6]}{(k+1)! \times (5 \times k! + 6) \times [5 \times (k+1)! + 6]} = \frac{1}{11}$$

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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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