In memory of Justynka, my wife

FORMULAS

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

●●●

FORMULA No.

W19

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.

D191

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^2 + 112 \times k + 191}{(4 \times k + 13) \times (4 \times k + 17) \times (k+3)! \times 2^{2 \times k - 1}} = \frac{1}{51}$$

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$$\sum_{k=1}^{k=\infty} \frac{(k+2)^4 - (k+1)^3}{k! \times [(k+1) \times (k+2)]^4} = \frac{1}{16} \qquad k \in N$$

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

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

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3 \times k^2 + 23 \times k + 15}{(k+6) \times (k+7) \times (k+1)! \times 3^k} = \frac{1}{7}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k!^2 \times k \times [2 \times (k+1)! - k - 2]}{[6 \times (k+1)!^2 - 2 \times (k+1)! + 1] \times [6 \times k!^2 - 2 \times k! + 1]} = \frac{1}{30}$$

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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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