In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W31

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.

D311

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{25 \times k^2 + 225 \times k + 499}{(5 \times k + 21) \times (5 \times k + 26) \times (k + 4)! \times 5^k} = \frac{1}{624}$$

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$$\sum_{k=1}^{k=\infty} \frac{5 \times (k+2)^8 - (k+1)^7}{k! \times [(k+1) \times (k+2)]^8 \times 5^k} = \frac{1}{256} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{(7 \times k + 44) \times 5^k}{7^{k-1} \times (k+7)!} = \frac{1}{144} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k!^2 \times k \times [2 \times (k+1)! - k - 2]}{[7 \times (k+1)!^2 - 2 \times (k+1)! + 1] \times [7 \times k!^2 - 2 \times k! + 1]} = \frac{1}{42}$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times [5 \times (k+2) \times k! + 2]}{(k+1)! \times (5 \times k! + 2) \times [5 \times (k+1)! + 2]} = \frac{1}{7}$$

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$$k \in N$$

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

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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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