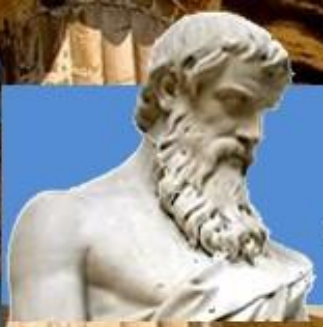
In memory of Justynka, my wife



FORMULAS

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

FORMULA No.

W11

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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

In memory of Justynka, my wife

FORMULAS

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Euclid

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FORMULA No.

D111

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{49 \times k^2 + 245 \times k + 293}{(7 \times k + 15) \times (7 \times k + 22) \times (k+2)! \times 7^k} = \frac{1}{44}$$

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

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Euclid

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$$\sum_{k=1}^{k=\infty} \frac{\left(k^2+5\times k+6\right)\times 2^{k+3}}{k\times(k+1)\times(k+6)!} = \frac{1}{45} \qquad k\in N$$

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

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FORMULAS

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Euclid

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$$k \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

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FORMULAS

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Euclid

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FORMULA No.

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

NEW MATHEMATICAL FORMULA DAILY

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FORMULAS

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

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FORMULA No.

D117

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$$k \in N$$

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

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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