In memory of Justynka, my wife

FORMULAS

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

● ● ●

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.

D121

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^2 + 176 \times k + 479}{(4 \times k + 21) \times (4 \times k + 25) \times (k + 5)! \times 2^{2 \times k - 3}} = \frac{1}{375}$$

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

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FORMULA No.

D123

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3^k \times sin^3\left(\frac{\pi}{3^{k+1}}\right) \times (k+2)^2 + \left[\pi - 3^{k+1} \times sin\left(\frac{1}{3^{k+1}}\right)\right] \times (k+1)}{k^2 \times (k+1)^2 \times (k+2)^2} = \frac{2 \times \pi - 3 \times \sqrt{3}}{32}$$

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FORMULA No.

D124

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$$k \in N$$

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

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$$k \in N$$

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

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FORMULA No.

D126

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

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FORMULA No.

D127

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{5 \times k^2 + 39 \times k + 29}{(k+6) \times (k+7) \times (k+1)! \times 5^k} = \frac{1}{7}$$

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We invite you every
week and every day
to our website
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