

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W43

'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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$$\sum_{k=1}^{k=\infty} \frac{16 \times k^2 + 48 \times k + 31}{(4 \times k + 5) \times (4 \times k + 9) \times (k + 1)! \times 2^{2 \times k}} = \frac{1}{9} \quad k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{(k^2 - 4) \times 2^{2 \times k - 2}}{k!^2} = 1 \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{(k^2 + 7 \times k + 2) \times 2^{2 \times k + 2}}{(k + 1)! \times (k + 6)!} = \frac{1}{45} \quad k \in \mathbb{N}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{[11 \times (k+1)^2 \times (10 \times k! - 7) - 7 \times k] \times k!}{(11 \times k! - 7) \times [11 \times (k+1)! - 7] \times [11 \times (k+2)! - 7]} = \frac{1}{20}$$

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$$\sum_{k=1}^{k=\infty} \frac{k \times [7 \times (k + 2) \times k! + 2]}{(k + 1)! \times (7 \times k! + 2) \times [7 \times (k + 1)! + 2]} = \frac{1}{9} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{5^k - 3}{5^{2 \times k}} = \frac{1}{8}$$

$k \in \mathbb{N}$

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We invite you every
week and every day
to our website
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Thanks for:
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