

In memory of Justynke, my wife

FORMULAS

FORMULA No.

W45

'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.

D451

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$$\sum_{k=1}^{k=\infty} \frac{(k^2 - 49) \times 7^{2 \times k - 2}}{k!^2} = 1 \quad k \in \mathbb{N}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{4 \times k^3 + 11 \times k^2 - 3 \times k - 9}{(k + 3)!} = 1 \quad k \in \mathbb{N}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{k \times [6 \times (k + 2) \times k! + 7]}{(k + 1)! \times (6 \times k! + 7) \times [6 \times (k + 1)! + 7]} = \frac{1}{13} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{(k^2 + 6 \times k - 8) \times 13^{k-1}}{(k+1)! \times (k+5)!} = \frac{1}{120} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{8 \times k^3 + 55 \times k^2 - 7 \times k - 49}{(k + 6) \times (k + 7) \times (k + 1)!} = 1 \quad k \in \mathbb{N}$$

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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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