

In memory of Justynke, my wife

FORMULAS

FORMULA No.

W52

'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.

D521

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$$\sum_{k=1}^{k=\infty} \frac{k^3 + 4 \times k^2 + 8 \times k + 4}{k^2 \times (k + 1)^2 \times (k + 2)^2 \times (k + 1)!} = \frac{1}{4} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{(k^2 + 2 \times k + 6) \times 5^k}{k \times (k + 1) \times (k + 6)!} = \frac{1}{144} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{\sin\left(\frac{(6 \times k - 1) \times \pi}{6^{k+1} \times k!}\right)}{\cos\left(\frac{\pi}{6^{k+1} \times k!}\right) \times \cos\left(\frac{\pi}{6^k \times (k-1)!}\right)} = \frac{\sqrt{3}}{3} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{7^{k-1} \times (k^3 - 4 \times k^2 + 3 \times k + 1)}{k^2 \times (k+1)^2 \times (k+1)!} = 1 \quad k \in \mathbb{N}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{k^3 + 9 \times k^2 + 22 \times k + 11}{(k+1)! \times (k+5)!} = \frac{4}{5!} \quad k \in \mathbb{N}$$

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

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week and every day
to our website
www.and-just-math.com

Thanks for:
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