



FORMULAS

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

FORMULA No.

W52

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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$$\sum_{k=1}^{k=\infty} \frac{k^2 + 5 \times k + 7}{(k + 2) \times (k + 3) \times (k + 3)!} = \frac{1}{18} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \sin\left(\frac{\pi}{2 \times 3^{k-1}}\right) \times \sin\left(\frac{\pi}{4 \times 3^{k-1}}\right) = \frac{2 + \sqrt{2}}{4} \quad k \in \mathbb{N}$$

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 1}{(5 + \sqrt{21}) \times k^4 + 2 \times (5 + \sqrt{21}) \times k^3 - (1 + \sqrt{21}) \times k^2 - 2 \times (3 + \sqrt{21}) \times k + 3 - \sqrt{21}} = \frac{1}{2}$$

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$$\sum_{k=1}^{k=\infty} \frac{4 \times k + 11}{4 \times k^4 + 44 \times k^3 + 171 \times k^2 + 275 \times k + 152} = \frac{1}{19} \quad k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{1}{(2 \times k + 1) \times (2 \times k + 3)} = \frac{1}{6} \quad k \in N$$

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

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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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