



FORMULAS

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

FORMULA No.

W47

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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$$\sum_{k=1}^{k=\infty} \sin\left(\frac{5^k \times \pi}{7^k}\right) \times \sin\left(\frac{5^k \times \pi}{6 \times 7^k}\right) = \frac{2 + \sqrt{3}}{4} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{2 \times k^2 + 16 \times k + 31}{(k+3) \times (k+4) \times (k+5) \times (k+6)} = \frac{9}{24} \quad k \in N$$

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

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

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$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times \frac{\sin\left(\frac{5 \times \pi}{2^{k+3}}\right)}{\cos\left(\frac{5 \times \pi}{3 \times 2^{k+2}}\right) \times \cos\left(\frac{5 \times \pi}{3 \times 2^{k+3}}\right)} \quad k \in \mathbb{N}$$
$$= \sqrt{6} + \sqrt{3} - \sqrt{2} - 2$$

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$$\sum_{k=1}^{k=\infty} \frac{2^k}{(7 + \sqrt{33}) \times 2^{2 \times k - 2} - 3 \times (3 + \sqrt{33}) \times 2^{k-2} + 3} = 1 \quad k \in \mathbb{N}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} (-1)^{k+1} \times \left(\frac{\pi}{2}\right)^{2 \times k} \times \frac{(2 \times k + 1) \times 2^{2 \times k} - \pi}{(2 \times k + 1)!} = 4 - \pi$$

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week and every day
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Thanks for:
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