



FORMULAS

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

FORMULA No.

W48

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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$$\sum_{k=1}^{k=\infty} \frac{1}{2^k} \times \operatorname{tg} \left(\frac{5 \times \pi}{3 \times 2^{k+2}} \right) = \frac{12 - 5 \times (2 - \sqrt{3}) \times \pi}{5 \times \pi} \quad k \in N$$

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{1}{(7 + 3 \times \sqrt{5}) \times k^2 - 3 \times (1 + \sqrt{5}) \times k + 5 - 3 \times \sqrt{5}} = \frac{1}{2}$$

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$$\sum_{k=1}^{k=\infty} \sin\left(\frac{2^{k-1} \times \pi}{3^k}\right) \times \sin\left(\frac{2^{k-1} \times \pi}{5 \times 3^k}\right) = \frac{5 - \sqrt{5}}{8} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{2^k}{(9 + \sqrt{65}) \times 2^{2 \times k - 2} - 3 \times (5 + \sqrt{65}) \times 2^{k-2} + 5} = 1 \quad k \in \mathbb{N}$$

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

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

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$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times \frac{\sin\left(\frac{\pi}{8 \times 3^k}\right) + \sin\left(\frac{\pi}{8 \times 3^{k+1}}\right)}{\operatorname{tg}\left(\frac{\pi}{4 \times 3^{k+1}}\right)} \quad k \in \mathbb{N}$$
$$= \frac{(3 \times \sqrt{2} + 2 \times \sqrt{3} + \sqrt{6} + 4) \times \sqrt{8 + 2 \times \sqrt{6} - 4 \times \sqrt{2} - 4 \times \sqrt{3}} \pm 8}{8}$$

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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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