



FORMULAS

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

FORMULA No.

W28

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

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$$\sum_{k=1}^{k=\infty} \frac{k + 5}{(k + 2) \times (k + 3) \times (k + 7) \times (k + 8)} = \frac{1}{48} \quad k \in N$$

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$k \in \mathbb{N}$

$$\prod_{k=1}^{k=\infty} \cos\left(\frac{3 \times \pi}{5 \times 2^{2 \times k+1}}\right) \times \cos\left(\frac{3 \times \pi}{5 \times 2^{2 \times k+2}}\right) = \frac{5 \times \sqrt{2 \times (4 - \sqrt{10 - 2 \times \sqrt{5}})}}{3 \times \pi}$$

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \operatorname{arc\,tg} \left(\frac{121}{122 \times k^2 + 2540 \times k + 13310} \right) = \operatorname{arc\,tg} \left(\frac{1}{11} \right)$$

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \text{arc ctg}(2 \times (2 - \sqrt{2}) \times k^2 + 2 \times (2 \times \sqrt{2} - 1) \times k + 2 + \sqrt{2}) = \frac{\pi}{8}$$

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

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \operatorname{arc\,tg} \left(\frac{(\sqrt{2} - 1) \times 2^{k-1}}{(2^{k-1} - 1) \times (2^k - 1) \times (3 - 2 \times \sqrt{2}) + 2^{2 \times k - 1}} \right) = \frac{\pi}{8}$$

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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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