



FORMULAS

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

FORMULA No.

W11

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

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

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

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

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$k \in \mathbb{N}$

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

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$$\sum_{k=1}^{k=\infty} \frac{(k-1) \times (k+3)}{k^2 \times (k+1) \times (k+2)^2} = \frac{1}{16} \quad k \in \mathbb{N}$$

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$$\prod_{k=1}^{k=\infty} \frac{\cos\left(\frac{\pi}{2^{k+1}}\right)}{\cos^2\left(\frac{\pi}{2^{k+2}}\right)} = \frac{\pi}{4} \quad k \in \mathbb{N}$$

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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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