



FORMULAS

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

FORMULA No.

W41

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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$$\prod_{k=1}^{k=\infty} \cos \frac{\pi}{5 \times 2^{k-1}} = \frac{5 \times \sqrt{10 + 2 \times \sqrt{5}}}{8 \times \pi} \quad k \in \mathbb{N}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{1}{2^k} \times tg \left(\frac{3 \times \pi}{5 \times 2^k} \right) = \frac{25 + 3 \times \sqrt{25 - 10 \times \sqrt{5}} \times \pi}{15 \times \pi} \quad k \in N$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} 3^{k-1} \times \sin^3 \left(\frac{2 \times \pi}{5 \times 3^k} \right) = \frac{8 \times \pi - 5 \times \sqrt{10 + 2 \times \sqrt{5}}}{80}$$

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$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times \sin\left(\frac{3 \times \pi}{5 \times 2^k}\right) \times \cos\left(\frac{\pi}{5 \times 2^k}\right) = \frac{\sqrt{10 + 2 \times \sqrt{5}}}{8} \quad k \in N$$

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$$\sum_{k=1}^{k=\infty} \operatorname{arctg} \frac{5^{k-1} \times 4 \times \sqrt{5 + 2 \times \sqrt{5}}}{5 + 2 \times \sqrt{5} + 5^{2 \times k - 1}} = \frac{2 \times \pi}{5} \quad k \in \mathbb{N}$$

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

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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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