



FORMULAS

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

FORMULA No.

W39

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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D391

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$$\sum_{k=1}^{k=\infty} \arcsin \left(\frac{\sqrt{2^{2 \times k+1} - 1} - \sqrt{2^{2 \times k-1} - 1}}{2^{2 \times k}} \right) = \frac{\pi}{4} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times \frac{\sin\left(\frac{9 \times \pi}{5 \times 2^{k+1}}\right)}{\cos\left(\frac{3 \times \pi}{5 \times 2^k}\right) \times \cos\left(\frac{3 \times \pi}{5 \times 2^{k+1}}\right)} \quad k \in \mathbb{N}$$
$$= \frac{\sqrt{25 + 10 \times \sqrt{5}}}{5}$$

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$$\sum_{k=1}^{k=\infty} \sin\left(\frac{3 \times \pi}{5 \times 2^{k+2}}\right) \times \cos\left(\frac{9 \times \pi}{5 \times 2^{k+2}}\right) = \frac{\sqrt{5} + 1}{8} \quad k \in \mathbb{N}$$

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

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$$\sum_{k=1}^{k=\infty} \sin\left(\frac{\pi}{5 \times 3^{k-1}}\right) \times \sin\left(\frac{-\pi}{10 \times 3^{k-1}}\right) = \frac{\sqrt{10 - 2 \times \sqrt{5}} - 4}{8} \quad k \in \mathbb{N}$$

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

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

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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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