



FORMULAS

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

FORMULA No.

W33

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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D331

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

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$$\sum_{k=1}^{k=\infty} \arcsin \left(\frac{(\sqrt{5} + 1) \times \left(\sqrt{2^{2 \times k + 4} - 6 - 2 \times \sqrt{5}} - \sqrt{2^{2 \times k + 2} - 6 - 2 \times \sqrt{5}} \right)}{2^{2 \times k + 3}} \right) = \frac{3 \times \pi}{10} \quad k \in \mathbb{N}$$

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

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$$\sum_{k=1}^{k=\infty} \arctan \frac{2^{2 \times k - 2} \times 3 \times \sqrt{3}}{1 + 3 \times 2^{4 \times k - 2}} = \frac{\pi}{6} \quad k \in \mathbb{N}$$

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

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

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$k \in \mathbb{N}$

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

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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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