



FORMULAS

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

FORMULA No.

W05

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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FORMULA No.

D051

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

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D052

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$k \in N$

$$\sum_{k=1}^{k=\infty} 3^{k-1} \times \sin^3 \left(\frac{\pi}{5 \times 3^k} \right) = \frac{4 \times \pi - 5 \times \sqrt{10 - 2 \times \sqrt{5}}}{80}$$

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

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$$\sum_{k=1}^{k=\infty} 3^{k-1} \times \sin^3 \left(\frac{\pi}{10 \times 3^{k-1}} \right) = \frac{6 \times \pi - 5 \times (\sqrt{5} + 1)}{80} \quad k \in N$$

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$$\sum_{k=1}^{k=\infty} \arccos \left(\frac{2 - \sqrt{3} + \sqrt{(2^{2 \times k} - 2 + \sqrt{3}) \times (2^{2 \times k + 2} - 2 + \sqrt{3})}}{2^{2 \times k + 1}} \right) = \frac{\pi}{12} \quad k \in \mathbb{N}$$

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

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

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week and every day
to our website
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Thanks for:
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