



FORMULAS

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

FORMULA No.

W26

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

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

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

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

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

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

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

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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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