



FORMULAS

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

FORMULA No.

W23

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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D231

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

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

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$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 11}{(k + 1) \times (k + 2) \times (k + 9) \times (k + 10)} = \frac{1}{20} \quad k \in N$$

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

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{1}{k \times \sqrt{k+1} + k \times \sqrt{k} + 8 \times \sqrt{k \times (k+1)} + 8 \times k + 16 \times \sqrt{k+1} + 17 \times \sqrt{k} + 4} = \frac{1}{5}$$

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$$\sum_{k=1}^{k=\infty} \operatorname{arc\,tg} \left(\frac{4}{5 \times k^2 + 11 \times k + 8} \right) = \operatorname{arc\,tg} \left(\frac{1}{2} \right) \quad k \in \mathbb{N}$$

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

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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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