



FORMULAS

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

FORMULA No.

W20

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.

D201

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

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D202

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$$\sum_{k=1}^{k=\infty} \frac{e^5 \times \ln(10 \times k + 1) - \ln(10 \times k + 11)}{e^{5 \times k}} = \ln 11 \quad k \in N$$

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$$\prod_{k=1}^{k=\infty} \left(5 - \operatorname{tg}^2 \left(\frac{\pi}{2^{2 \times k + 2}} \right) - 2 \times \frac{\operatorname{tg} \left(\frac{\pi}{2^{2 \times k + 1}} \right)}{\operatorname{tg} \left(\frac{\pi}{2^{2 \times k + 2}} \right)} \right) = \frac{\pi}{4} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 19}{(k + 9)^2 \times (k + 10)^2} = \frac{1}{100} \quad k \in \mathbb{N}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 5}{k \times (k + 1) \times (k + 4) \times (k + 5)} = \frac{1}{5} \quad k \in \mathbb{N}$$

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

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week and every day
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Thanks for:
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