



FORMULAS

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

FORMULA No.

W18

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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D181

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

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

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

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$$\sum_{k=1}^{k=\infty} \frac{k+2}{k \times (k+1) \times (k+3) \times (k+4)} = \frac{1}{8} \quad k \in \mathbb{N}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{k + 5}{k \times (k + 1) \times (k + 9) \times (k + 10)} = \frac{1}{20} \quad k \in N$$

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$$\prod_{k=1}^{k=\infty} \left(1 - 4 \times \sin \left(\frac{\pi}{12 \times 5^k} \right) \times \sin \left(\frac{\pi}{4 \times 5^k} \right) \right) = \frac{\sqrt{6} + \sqrt{2}}{4} \quad k \in N$$

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week and every day
to our website
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Thanks for:
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