



FORMULAS

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

FORMULA No.

W14

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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D141

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$$\sum_{k=1}^{k=\infty} \frac{1}{k \times (k + 5)} = \frac{137}{300} \quad k \in \mathbb{N}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{1}{k \times (k + 4)} = \frac{25}{48} \quad k \in \mathbb{N}$$

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

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$k \in \mathbb{N}$

$$\prod_{k=1}^{k=\infty} \left(5 - \operatorname{tg}^2 \left(\frac{\pi}{5 \times 2^{2 \times k+1}} \right) - 2 \times \frac{\operatorname{tg} \left(\frac{\pi}{5 \times 2^{2 \times k}} \right)}{\operatorname{tg} \left(\frac{\pi}{5 \times 2^{2 \times k+1}} \right)} \right) = \frac{\sqrt{5 + 2 \times \sqrt{5}} \times \pi}{10}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{(k+2) \times (k+3) \times (k+4)} = \frac{1}{24} \quad k \in N$$

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

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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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