



FORMULAS

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

FORMULA No.

W21

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.

D211

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$$\sum_{k=1}^{k=\infty} \frac{6 \times k + 11}{(3 \times k + 1) \times (3 \times k + 4) \times (3 \times k + 7) \times (3 \times k + 10)} = \frac{1}{120} \quad k \in N$$

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

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{e^3 \times \ln[(k+1) \times (k+2)] - \ln[(k+2) \times (k+3)] - (e^3 - 1) \times \ln 2}{e^{3 \times k}} = \ln 3$$

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

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$$\sum_{k=1}^{k=\infty} \frac{k+1}{(2 \times k+1)^2 \times (2 \times k+3)^2} = \frac{1}{72} \quad k \in N$$

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$k \in N$

$$\prod_{k=1}^{k=\infty} \left(5 - \operatorname{tg}^2 \left(\frac{\pi}{5 \times 2^{2 \times k - 1}} \right) - 2 \times \frac{\operatorname{tg} \left(\frac{\pi}{5 \times 2^{2 \times k - 2}} \right)}{\operatorname{tg} \left(\frac{\pi}{5 \times 2^{2 \times k - 1}} \right)} \right) = \frac{2 \times \sqrt{25 - 10 \times \sqrt{5}} \times \pi}{25}$$

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$$\sum_{k=1}^{k=\infty} \frac{4 \times k + 7}{k \times (k + 1) \times (2 \times k + 5) \times (2 \times k + 7)} = \frac{1}{7} \quad k \in N$$

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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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