



FORMULAS

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

FORMULA No.

W25

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.

D251

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$$\sum_{k=1}^{k=\infty} \frac{\sin\left(\frac{\pi}{2 \times 3^{k+1}}\right)}{\cos\left(\frac{\pi}{2 \times 3^k}\right)} = \frac{\sqrt{3}}{6}$$

$k \in \mathbb{N}$

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

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$$\sum_{k=1}^{k=\infty} \operatorname{arc\,tg} \left(\frac{25}{26 \times k^2 + 224 \times k + 500} \right) = \operatorname{arc\,tg} \left(\frac{1}{5} \right) \quad k \in \mathbb{N}$$

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times k \times \sqrt{k+1} + 4 \times k \times \sqrt{k} + 12 \times \sqrt{k \times (k+1)} + 12 \times k + 9 \times \sqrt{k+1} + 13 \times \sqrt{k} + 6} = \frac{1}{10}$$

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$$\sum_{k=1}^{k=\infty} \frac{k+4}{k \times (k+1) \times (k+7) \times (k+8)} = \frac{1}{16} \quad k \in N$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \operatorname{arc} \operatorname{tg} \left(\frac{64}{4160 \times k^2 - 4144 \times k - 7} \right) = \operatorname{arc} \operatorname{tg}(8)$$

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We invite you every
week and every day
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Thanks for:
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