



FORMULAS

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

FORMULA No.

W32

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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D321

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$$\sum_{k=1}^{k=\infty} \operatorname{arc\,tg} \left(\frac{49}{50 \times k^2 + 636 \times k + 2058} \right) = \operatorname{arc\,tg} \left(\frac{1}{7} \right) \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{\sin\left(\frac{\pi}{10 \times 3^{k-1}}\right)}{\cos\left(\frac{\pi}{10 \times 3^{k-2}}\right)} = \frac{\sqrt{25 + 10 \times \sqrt{5}}}{10} \quad k \in \mathbb{N}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(4 \times k^2 - 2 \times k - 1) \times (2 \times k + 1)^2}{100 \times k^6 + 60 \times k^5 - 51 \times k^4 - 38 \times k^3 + 7 \times k^2 + 10 \times k + 2} = \frac{1}{5}$$

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$k \in \mathbb{N}$

$$\prod_{k=1}^{k=\infty} \cos\left(\frac{\pi}{5 \times 2^{2 \times k+1}}\right) \times \cos\left(\frac{\pi}{5 \times 2^{2 \times k+2}}\right) = \frac{5 \times \sqrt{2 \times \left(4 - \sqrt{10 + 2 \times \sqrt{5}}\right)}}{\pi}$$

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$$\sum_{k=1}^{k=\infty} \operatorname{arc\,tg} \left(\frac{\sqrt{3} \times 2^{k-1}}{(2^{k-1} - 1) \times (2^k - 1) \times 3 + 2^{2 \times k - 1}} \right) = \frac{\pi}{3} \quad k \in \mathbb{N}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \operatorname{arc\,ctg}(2 \times (2 + \sqrt{2})k^2 - 2 \times (1 + 2 \times \sqrt{2}) \times k + 2 - \sqrt{2}) = \frac{5 \times \pi}{8}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \text{arc tg} \left(\frac{81}{82 \times k^2 + 1376 \times k + 5832} \right) = \text{arc tg} \left(\frac{1}{9} \right)$$

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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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