



FORMULAS

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

FORMULA No.

W35

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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D351

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$$\sum_{k=1}^{k=\infty} \operatorname{arc\,tg} \left(\frac{\sqrt{3} \times 2^{k-1}}{(2^{k-1} - 1) \times (2^k - 1) + 3 \times 2^{2 \times k - 1}} \right) = \frac{\pi}{6} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{\ln k \times \ln[(k-1)! \times k!]}{[(\ln(k-1)!)^2 + 1] \times [(\ln k!)^2 + 1]} = 1 \quad k \in \mathbb{N}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \operatorname{arc\,tg} \left(\frac{4 \times (k + 2)^2}{5 \times k^4 + 31 \times k^3 + 72 \times k^2 + 76 \times k + 32} \right) = \operatorname{arc\,tg} \left(\frac{1}{2} \right)$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \operatorname{arc\,tg} \left(\frac{121}{14762 \times k^2 - 14740 \times k + 10} \right) = \operatorname{arc\,tg}(11)$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \operatorname{arc\,ctg} \left(\frac{4}{3} \times k^2 + \frac{2}{3} \times (3 \times \sqrt{3} - 2) \times k + 3 - \sqrt{3} \right) = \frac{\pi}{6}$$

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$$\sum_{k=1}^{k=\infty} \sin\left(\frac{5^{k-1} \times \pi}{7^k}\right) \times \sin\left(\frac{5^{k-1} \times \pi}{6 \times 7^k}\right) = \frac{2 - \sqrt{3}}{4} \quad k \in \mathbb{N}$$

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{k \times \sqrt{(k+1)^2 \times (k+2)^2 + 4} - (k+2) \times \sqrt{k^2 \times (k+1)^2 + 4} + 4}{k \times (k+1) \times (k+2)} = 2 - \sqrt{2}$$

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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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