



# FORMULAS

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

FORMULA No.

**W26**

[www.and-just-math.com](http://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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$$\sum_{k=1}^{k=\infty} \frac{\sin\left(\frac{\pi}{4 \times 3^k}\right)}{\cos\left(\frac{\pi}{4 \times 3^{k-1}}\right)} = \frac{1}{2} \quad k \in \mathbb{N}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 9}{(k + 1) \times (k + 2) \times (k + 7) \times (k + 8)} = \frac{1}{16} \quad k \in \mathbb{N}$$

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{1}{9 \times k \times \sqrt{k+1} + 9 \times k \times \sqrt{k} + 12 \times \sqrt{k \times (k+1)} + 12 \times k + 4 \times \sqrt{k+1} + 13 \times \sqrt{k} + 6} = \frac{1}{15}$$

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \operatorname{arc\,tg} \left( \frac{(2 - \sqrt{3}) \times 2^{k-1}}{(2^{k-1} - 1) \times (2^k - 1) \times (7 - 4 \times \sqrt{3}) + 2^{2 \times k - 1}} \right) = \frac{\pi}{12}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \operatorname{arc\,tg} \left( \frac{49}{2450 \times k^2 - 2436 \times k - 6} \right) = \operatorname{arc\,tg}(7)$$

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$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 9}{(k + 2) \times (k + 3) \times (k + 6) \times (k + 7)} = \frac{1}{21} \quad k \in N$$

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We invite you every  
week and every day  
to our website  
[www.and-just-math.com](http://www.and-just-math.com)

Thanks for:  
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