



# FORMULAS

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

FORMULA No.

**W15**

[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**



# FORMULAS

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

FORMULA No.

**D151**

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$$\sum_{k=1}^{k=\infty} \frac{1}{(k+2)^2 \times (k+4)} = \frac{\pi^2}{12} - \frac{37}{48} \quad k \in \mathbb{N}$$

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# FORMULAS

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FORMULA No.

**D152**

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

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**D153**

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$$\sum_{k=1}^{k=\infty} \frac{6 \times k + 1 + 2^{4 \times k + 1}}{k \times (2 \times k - 1) \times 2^{4 \times k + 1}} = \ln 5 \quad k \in \mathbb{N}$$

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FORMULA No.

**D154**

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$$\prod_{k=1}^{k=\infty} \frac{\cos\left(\frac{5 \times \pi}{2^{k+2}}\right)}{\cos^2\left(\frac{5 \times \pi}{2^{k+3}}\right)} = \frac{-5 \times (\sqrt{2} - 1) \times \pi}{8} \quad k \in \mathbb{N}$$

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# FORMULAS

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**D155**

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

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# FORMULAS

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FORMULA No.

**D156**

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$k \in \mathbb{N}$

$$\prod_{k=1}^{k=\infty} \left( 5 - \operatorname{tg}^2 \left( \frac{3 \times \pi}{5 \times 2^{2 \times k+1}} \right) - 2 \times \frac{\operatorname{tg} \left( \frac{3 \times \pi}{5 \times 2^{2 \times k}} \right)}{\operatorname{tg} \left( \frac{3 \times \pi}{5 \times 2^{2 \times k+1}} \right)} \right) = \frac{3 \times \sqrt{5 - 2 \times \sqrt{5}} \times \pi}{10}$$

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**D157**

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$$\sum_{k=1}^{k=\infty} \frac{(-1)^{2 \times k - 1} \times (10 \times k - 1) + 2^{4 \times k + 1}}{k \times (2 \times k - 1) \times 2^{4 \times k + 1}} = \ln 3 \quad k \in \mathbb{N}$$

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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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