



# FORMULAS

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

FORMULA No.

**W12**

[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.

**D121**

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

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FORMULA No.

**D122**

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

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

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

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$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 3}{k^2 \times (k + 3)^2} = \frac{49}{108} \quad k \in \mathbb{N}$$

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$$\prod_{k=1}^{k=\infty} \frac{\cos\left(\frac{\pi}{3 \times 2^k}\right)}{\cos^2\left(\frac{\pi}{3 \times 2^{k+1}}\right)} = \frac{\sqrt{3} \times \pi}{6} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{k+1}{k^2 \times (k+2)^2} = \frac{5}{16} \quad k \in \mathbb{N}$$

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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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