



# FORMULAS

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

FORMULA No.

**W10**

[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.

**D101**

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$$\sum_{k=1}^{k=\infty} \frac{1}{(k+3) \times (k+4)^2} = \frac{241}{144} - \frac{\pi^2}{6} \quad k \in \mathbb{N}$$

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# FORMULAS

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FORMULA No.

**D102**

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

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**D103**

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{6 \times k^2 - 4 \times k - 1}{(4 \times k - 3) \times (4 \times k - 2) \times (4 \times k + 1) \times (4 \times k + 2)} = \frac{1}{32}$$

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FORMULA No.

**D104**

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$k \in N$

$$\prod_{k=1}^{k=\infty} \cos\left(\frac{5 \times \pi}{3 \times 2^{2 \times k+1}}\right) \times \cos\left(\frac{5 \times \pi}{3 \times 2^{2 \times k+2}}\right) = \frac{3 \times (\sqrt{6} + \sqrt{2})}{5 \times \pi}$$

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**D105**

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

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FORMULA No.

**D106**

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$$\prod_{k=1}^{k=\infty} \frac{\cos\left(\frac{\pi}{3 \times 2^{k-1}}\right)}{\cos^2\left(\frac{\pi}{3 \times 2^k}\right)} = \frac{\sqrt{3} \times \pi}{9} \quad k \in \mathbb{N}$$

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# FORMULAS

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FORMULA No.

**D107**

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$$\sum_{k=1}^{k=\infty} \frac{1}{(k+4)^2 \times (k+5)} = \frac{\pi^2}{6} - \frac{1169}{720} \quad k \in \mathbb{N}$$

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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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