

*In memory of Justynka, my wife*

# FORMULAS

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

FORMULA No.

**W51**

[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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# FORMULAS

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FORMULA No.

**D511**

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

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$$\sum_{k=1}^{k=\infty} \frac{3^{k-1} \times [(k+1)^4 - 3 \times k^3]}{k^3 \times (k+1)^3 \times (k+1)!} = 1 \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{(k^2 + 4 \times k + 6) \times 3^{k+1}}{k \times (k + 1) \times (k + 6)!} = \frac{1}{560} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{k^3 + 8 \times k^2 + 20 \times k + 12}{(k+2)^2 \times (k+3)^2 \times (k+4)^2 \times (k+1)!} = \frac{1}{144} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{3^k + 2 \times k \times 3^{k-1} + 4}{k \times (k + 1) \times (3^{k-1} + 4) \times (3^k + 4)} = \frac{1}{5} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{k^3 + 15 \times k^2 + 61 \times k + 41}{(k+1)! \times (k+8)!} = \frac{7}{8!} \quad k \in \mathbb{N}$$

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

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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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Photo Gordon Johnson z Pixabay  
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