

*In memory of Justynka, my wife*

# FORMULAS

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

FORMULA No.

**W47**

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

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

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$$\sum_{k=1}^{k=\infty} \frac{(k-1) \times k - 64}{(k+7)^2 \times (k+8)^2} = 0 \quad k \in \mathbb{N}$$

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

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$$\sum_{k=1}^{k=\infty} \sin \left( \frac{(3 \times k^2 + 5 \times k - 1) \times \pi}{4 \times 3^k \times (k + 2)!} \right) \quad k \in \mathbb{N}$$
$$\times \cos \left( \frac{(3 \times k^2 + 7 \times k + 1) \times \pi}{4 \times 3^k \times (k + 2)!} \right) = \frac{\sqrt{2}}{4}$$

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$$\sum_{k=1}^{k=\infty} \frac{k^3 + 13 \times k^2 + 46 \times k + 29}{(k+1)! \times (k+7)!} = \frac{6}{7!} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{\sin\left(\frac{3 \times \pi}{8 \times k \times (k+1)}\right)}{\sin\left(\frac{(4 \times k + 1) \times \pi}{8 \times (k+1)}\right) \times \sin\left(\frac{(4 \times k - 3) \times \pi}{8 \times k}\right)} \quad k \in \mathbb{N}$$
$$= 1 + \sqrt{2}$$

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We invite you every  
week and every day  
to our website  
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Thanks for:  
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Photo Gordon Johnson z Pixabay  
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