

*In memory of Justynke, my wife*

# FORMULAS

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

FORMULA No.

**W53**

[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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Euclid

FORMULA No.

**D531**

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$$\sum_{k=1}^{k=\infty} \frac{2^{3 \times k - 6} \times (16 \times k - 1) + 2 \times k - 1}{2^{k+3} \times (2^{3 \times k - 6} + 1) \times (2^{3 \times k - 3} + 1) \times k!} = \frac{1}{9} \quad k \in \mathbb{N}$$

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# FORMULAS

FORMULA No.

**D532**

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

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

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

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$$\sum_{k=1}^{k=\infty} \frac{9 \times (k - 2) \times 7^{k-1} + 4 \times k + 16}{(k + 5)!} = \frac{13}{5!} \quad k \in \mathbb{N}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{3 \times (k + 5) \times 2^{k-1} + 5 \times (k - 4) \times 11^{k-1}}{(k + 7)!} = \frac{8}{7!} \quad k \in \mathbb{N}$$

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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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