

*In memory of Justynke, my wife*

# FORMULAS

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

FORMULA No.

**W52**

[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.

**D521**

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

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$$\sum_{k=1}^{k=\infty} \frac{(7 \times k + 32) \times 3^k}{7^k \times (k + 5)!} = \frac{1}{40} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{80 \times k^3 + 151 \times k^2 - 55 \times k - 121}{(5 \times k + 6) \times (5 \times k + 11) \times (k + 1)!} = 1 \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{12 \times k^2 + 72 \times k + 109}{(2 \times k + 5)^3 \times (2 \times k + 7)^3} = \frac{1}{686} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{(k^2 + 4 \times k - 10) \times 13^{k-1}}{(k+1)! \times (k+3)!} = \frac{1}{6} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{(7^k - 7 \times 2^{2 \times k - 3} - 2^{2 \times k - 1}) \times 2^{2 \times k - 1}}{7^{2 \times k}} = \frac{1}{3} \quad k \in \mathbb{N}$$

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

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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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