

*In memory of Justynka, my wife*

# FORMULAS

FORMULA No.

**W07**

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



[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

FORMULA No.

**D071**

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

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

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

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

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

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$$\sum_{k=1}^{k=\infty} \frac{3 \times k^2 + 14 \times k + 9}{(k+3) \times (k+4) \times (k+1)! \times 3^k} = \frac{1}{4} \quad k \in \mathbb{N}$$

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

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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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