

*In memory of Justynka, my wife*

# FORMULAS

FORMULA No.

**W50**

'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

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FORMULA No.

**D501**

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

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FORMULA No.

**D502**

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

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$$\sum_{k=1}^{k=\infty} \frac{7 \times k^3 + 41 \times k^2 - 6 \times k - 36}{(k + 5) \times (k + 6) \times (k + 1)!} = 1 \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{75 \times k^2 + 105 \times k + 43}{(5 \times k + 1)^3 \times (5 \times k + 6)^3} = \frac{1}{1080} \quad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{(k^2 + 5 \times k - 1) \times 5^{k-1}}{(k+1)! \times (k+4)!} = \frac{1}{24} \quad k \in \mathbb{N}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{[20 \times (k+1)^2 \times (19 \times k! - 13) - 13 \times k] \times k!}{(20 \times k! - 13) \times [20 \times (k+1)! - 13] \times [20 \times (k+2)! - 13]} = \frac{2}{63}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{k \times [7 \times (k + 2) \times k! + 6]}{(k + 1)! \times (7 \times k! + 6) \times [7 \times (k + 1)! + 6]} = \frac{1}{13}$$

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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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