

*In memory of Justynke, my wife*

# FORMULAS

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

FORMULA No.

**W21**

[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.

**D211**

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{7^{k-1} \times [(7 \times k + 6)^{k+1} + 49 \times (7 \times k - 8)^{k-1} - 14 \times (7 \times k - 1)^k]}{[(7 \times k + 6)^{k+1} - 7 \times (7 \times k - 1)^k] \times [(7 \times k - 1)^k - 7 \times (7 \times k - 8)^{k-1}]} = -1$$

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# FORMULAS

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FORMULA No.

**D212**

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

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# FORMULAS

FORMULA No.

**D213**

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$$\sum_{k=1}^{k=\infty} \frac{k! \times (k^2 + k + 1) + 8 \times 3^k}{(k \times k! + 4 \times 3^k) \times [(k + 1) \times (k + 1)! + 4 \times 3^{k+1}]} = \frac{1}{13} \quad k \in \mathbb{N}$$

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**D214**

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$$\sum_{k=1}^{k=\infty} \frac{1}{121 \times k^2 - 99 \times k - 10} = \frac{1}{11} \quad k \in \mathbb{N}$$

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# FORMULAS

FORMULA No.

**D215**

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$$\sum_{k=1}^{k=\infty} \frac{(k-2) \times 7^{k-1}}{(k+5)!} = \frac{1}{120} \quad k \in \mathbb{N}$$

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# FORMULAS

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FORMULA No.

**D216**

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{44 \times k^2 - 42 \times k - 1}{(11 \times k - 10) \times (11 \times k + 1) \times (33 \times k - 32) \times (33 \times k + 1)} = \frac{1}{363}$$

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**D217**

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{11^{k-1} \times [(11 \times k + 16)^{k+1} + 121 \times (11 \times k - 6)^{k-1} - 22 \times (11 \times k + 5)^k]}{[(11 \times k + 16)^{k+1} - 11 \times (11 \times k + 5)^k] \times [(11 \times k + 5)^k - 11 \times (11 \times k - 6)^{k-1}]} = \frac{1}{5}$$

**NEW MATHEMATICAL FORMULA DAILY**





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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