

*In memory of Justynka, my wife*

# FORMULAS

FORMULA No.

**W10**

'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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Euclid

FORMULA No.

**D101**

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$$\sum_{k=1}^{k=\infty} \frac{(-1)^k \times (k+1)}{(2 \times k + 1) \times (2 \times k + 3)} = - \frac{1}{12} \quad k \in \mathbb{N}$$

**NEW MATHEMATICAL FORMULA DAILY**

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# FORMULAS

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FORMULA No.

**D102**

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$$\sum_{k=1}^{k=\infty} \frac{1}{(5 \times k + 12) \times (5 \times k + 17)} = \frac{1}{85} \quad k \in \mathbb{N}$$

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# FORMULAS

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FORMULA No.

**D103**

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$$\sum_{k=1}^{k=\infty} \sin\left(\frac{3^{k-1} \times \pi}{7^k}\right) \times \sin\left(\frac{2 \times 3^{k-1} \times \pi}{5 \times 7^k}\right) = \frac{3 - \sqrt{5}}{8} \quad k \in \mathbb{N}$$

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# FORMULAS

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FORMULA No.

**D104**

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{1}{(7 - 3 \times \sqrt{5}) \times k^2 + 3 \times (\sqrt{5} - 1) \times k + 5 + 3 \times \sqrt{5}} = \frac{1}{2}$$

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# FORMULAS

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FORMULA No.

**D105**

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$$\sum_{k=1}^{k=\infty} \frac{(-1)^k \times (3 \times k + 1)}{4 \times (3 \times k + 1)^2 - 9} = - \frac{1}{20} \quad k \in \mathbb{N}$$

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# FORMULAS

FORMULA No.

**D106**

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{2^{k-1} \times [(2 \times k + 5)^{k+1} + 4 \times (2 \times k + 1)^{k-1} - 4 \times (2 \times k + 3)^k]}{[(2 \times k + 5)^{k+1} - 2 \times (2 \times k + 3)^k] \times [(2 \times k + 3)^k - 2 \times (2 \times k + 1)^{k-1}]} = \frac{1}{3}$$

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# FORMULAS

FORMULA No.

**D107**

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{60 \times k^2 - 58 \times k - 1}{(5 \times k - 4) \times (5 \times k + 1) \times (55 \times k - 54) \times (55 \times k + 1)} = \frac{1}{275}$$

**NEW MATHEMATICAL FORMULA DAILY**





We invite you every  
week and every day  
to our website  
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Thanks for:  
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Photo Gordon Johnson z Pixabay  
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