

*In memory of Justynka, my wife*

# FORMULAS

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

FORMULA No.

**W47**

[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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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(5 \times p_{k+2} - 3 \times p_{k+3}) \times [(p_{k+3} - 1)! + 1] - (5 \times p_{k+3} - 3 \times p_{k+4}) \times [(p_{k+2} - 1)! + 1]}{[(p_{k+2} - 1)! + 1] \times [(p_{k+3} - 1)! + 1]} = \frac{4}{25}$$

$p_k$  ( $k$ -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{(p_k + 3) \times (p_{k+2} - p_{k+1}) \times p_{k+3} - 3 \times (p_{k+3} - p_{k+2}) \times p_k}{p_k \times p_{k+1} \times p_{k+2} \times p_{k+3}} = \frac{8}{15}$$

$p_k$  ( $k$ -th prime number)

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(k+3) \times (p_k+1) \times p_{k+1} \times [(k+1) \times (p_{k+1}+3) + p_{k+1} - p_{k+2}] - p_k \times [(k+2) \times (p_{k+2}+3) + p_{k+2} - p_{k+3}]}{p_k \times p_{k+1} \times (k+3)!} = 3 \frac{5}{6}$$

$p_k$  ( $k$ -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{5^k \times [(k+2) \times p_{k+3}! - 5 \times p_{k+2}!]}{(k+2)! \times p_{k+2}! \times p_{k+3}!} = \frac{1}{48} \quad k \in \mathbb{N}$$

*p<sub>k</sub> (k-th prime number)*

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

*p<sub>k</sub> (k-th prime number)*

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

*p<sub>k</sub> (k-th prime number)*

**NEW MATHEMATICAL FORMULA DAILY**

*Pamięci Justynki, mojej żony*

# WZORY

Prawa natury są jedynie matematycznymi myślami Boga

Autor: Euklides



WZÓR Nr

D477

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Nie jesteśmy matematykami, ale kochamy matematykę i sami tworzymy wzory.

Żadna inna nauka nie umacnia tak wiary w siłę ludzkiego ducha, jak matematyka.

Autor: Hugo Steinhaus

$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(k+2) \times (p_k^5 - 1) \times p_{k+1}^3 - (p_{k+1}^5 - 1) \times p_k^3}{p_k^3 \times p_{k+1}^3 \times (k+2)!} = 1 \frac{15}{16}$$

$p_k$  ( $k$ -ta liczba pierwsza)

CODZIENNIE NOWY WZÓR



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  
Photo lange-adrian z Pixabay