

*In memory of Justynka, my wife*

# FORMULAS

FORMULA No.

**W44**

'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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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{k \times [p_{k+9} \times p_{k+10} \times k^2 - (2 \times p_{k+8} - p_{k+9}) \times p_{k+10} \times k - (2 \times p_{k+10} - p_{k+9}) \times p_{k+8}]}{p_{k+8} \times p_{k+9} \times p_{k+10} \times (k+1)!} = \frac{1}{23}$$

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

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} (k+1) \times (p_k^3 \times 5^{3-p_k} - 2 \times p_{k+1}^3 \times 5^{3-p_{k+1}} + p_{k+2}^3 \times 5^{3-p_{k+2}}) = 53$$

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

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$$\sum_{k=1}^{k=\infty} \frac{7^{k-1} \times [(k+2) \times p_{k+2}! - 7 \times p_{k+1}!]}{(k+2)! \times p_{k+1}! \times p_{k+2}!} = \frac{1}{12} \quad k \in N$$

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

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

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

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{[(k-2) \times (k+4) \times (p_k^2 + 1) \times p_{k+1}^2 - 5 \times (k-1) \times p_k^2] \times 5^{k-2}}{p_k^2 \times p_{k+1}^2 \times (k+4)!} = \frac{1}{32}$$

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

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{124 \times [(k+5) \times p_{k+1}^2 - p_k^2] - (k+5)! \times (p_{k+1}^2 - p_k^2)}{p_k^2 \times p_{k+1}^2 \times (k+5)!} = \frac{1}{120}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{[(2 \times p_k + 3) \times p_{k+1} \times (k + 2) - 15 \times p_k] \times 5^{k+1}}{p_k \times p_{k+1} \times (k + 2)!} = \frac{8 \times e^5 + 27}{4} \quad k \in N$$

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

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We invite you every  
week and every day  
to our website  
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Thanks for:  
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