

*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

FORMULA No.

**D501**

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$$\sum_{k=1}^{k=\infty} \frac{[(p_k + 1) \times p_{k+1} \times (k + 2) - 7 \times p_k] \times 7^{k+1}}{p_k \times p_{k+1} \times (k + 2)!} = e^7 + 4 \frac{1}{4} \quad k \in N$$

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

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FORMULA No.

**D502**

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$$\sum_{k=1}^{k=\infty} \frac{3 \times p_{k+6} - p_{k+5}}{3^k \times p_{k+5} \times p_{k+6}} = \frac{1}{13} \quad k \in \mathbb{N}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{2 \times (k+1) \times p_{k+8} \times p_{k+2}! - p_{k+7} \times p_{k+1}!}{p_{k+7} \times p_{k+8} \times 2^{k-1} \times (k+1)! \times p_{k+1}! \times p_{k+2}!} = \frac{1}{57}$$

$k \in N$

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

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FORMULA No.

**D504**

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{[(k-2) \times (p_k! - 1) \times p_{k+1}! - 5 \times (p_{k+1}! - p_k!)] \times 5^{k-1}}{(k+3)! \times p_k! \times p_{k+1}!} = \frac{1}{12}$$

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

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(k+1) \times [p_{k+1} \times p_{k+2} - 2 \times p_{k+1} \times p_{k+3} + p_{k+2} \times p_{k+3} + 3 \times (2 \times p_{k+2} - p_{k+1} - p_{k+3})]}{(p_{k+1} + 3) \times (p_{k+2} + 3) \times (p_{k+3} + 3)} = \frac{5}{24}$$

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

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{128 \times [(k+5) \times p_{k+1}^3 - p_k^3] - (k+5)! \times (p_{k+1}^3 - p_k^3)}{p_k^3 \times p_{k+1}^3 \times (k+5)!} = \frac{1}{120}$$

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

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

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

**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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