

*In memory of Justynka, my wife*

# FORMULAS

FORMULA No.

**W42**

'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.

D421

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2} - p_{k+1}) \times [p_{k+1} \times p_{k+2} + 3 \times (p_{k+1} + p_{k+2}) \times \ln 11] - p_{k+1} \times p_{k+2} \times \left( p_{k+2} \times 11^{\frac{3}{p_{k+1}}} - p_{k+1} \times 11^{\frac{3}{p_{k+2}}} \right)}{p_{k+1}^2 \times p_{k+2}^2} = \frac{\ln 11 - 10}{3}$$

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

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2} - p_{k+1}) \times k + 4 \times (p_{k+2} - p_k) \times p_{k+1} + p_{k+2}}{p_{k+1} \times p_{k+2} \times (4 \times p_k + k) \times (4 \times p_{k+1} + k + 1)} = \frac{1}{27}$$

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

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(k+1) \times [p_{k+1} \times p_{k+2} - 2 \times p_{k+1} \times p_{k+3} + p_{k+2} \times p_{k+3} + 8 \times (2 \times p_{k+2} - p_{k+1} - p_{k+3})]}{(p_{k+1} + 8) \times (p_{k+2} + 8) \times (p_{k+3} + 8)} = \frac{15}{143}$$

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

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**D424**

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

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

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FORMULA No.

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

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

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# FORMULAS

FORMULA No.

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{10 \times [(k+2) \times p_{k+1}^3 - p_k^3] - (k+2)! \times (p_{k+1}^3 - p_k^3)}{p_k^3 \times p_{k+1}^3 \times (k+2)!} = \frac{1}{2}$$

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

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(p_k + 6) \times p_{k+1} \times k + 2 \times p_k \times p_{k+1} + 12 \times p_{k+1} - 6 \times p_k}{p_k \times p_{k+1} \times (k + 2)!} = e - \frac{1}{2}$$

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

**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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