

*In memory of Justynka, my wife*

# FORMULAS

FORMULA No.

**W09**

'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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FORMULA No.

D091

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$k \in \mathbb{N}$

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

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

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$k \in \mathbb{N}$

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

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

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(2 \times p_k + 1) \times (p_{k+2} - p_{k+1}) \times p_{k+3} - (p_{k+3} - p_{k+2}) \times p_k}{p_k \times p_{k+1} \times p_{k+2} \times p_{k+3}} = \frac{11}{15}$$

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

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{2 \times (k + 1) \times p_{k+2} \times p_{k+6} - p_{k+1} \times p_{k+5}}{p_{k+1} \times p_{k+2} \times p_{k+5} \times p_{k+6} \times (k + 1)! \times 2^k} = \frac{1}{39}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{p_k \times p_{k+1} - (k - 7) \times p_{k+1} + (k + 10) \times p_k + 72}{(k + 1) \times (k + 2) \times (p_k + 9) \times (p_{k+1} + 9)} = \frac{5}{11}$$

$k \in N$

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

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$k \in N$

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

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

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(k+1) \times (p_{k+1} \times p_{k+2} - 2 \times p_{k+1} \times p_{k+3} + p_{k+2} \times p_{k+3})}{p_{k+1} \times p_{k+2} \times p_{k+3}} = \frac{7}{15}$$

$p_k$  ( $k$ -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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Photo Gordon Johnson z Pixabay  
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