

*In memory of Justynka, my wife*

# FORMULAS

FORMULA No.

W10

'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

*In memory of Justynka, my wife*

# FORMULAS

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

FORMULA No.

**D101**

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$k \in N$

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

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

**NEW MATHEMATICAL FORMULA DAILY**

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# FORMULAS

FORMULA No.

**D102**

'The laws of nature are but the mathematical thoughts of God.'  
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$$\sum_{k=1}^{k=\infty} \frac{[(p_k + 1) \times p_{k+1} \times (k + 2) - 6 \times p_k] \times 6^{k+1}}{p_k \times p_{k+1} \times (k + 2)!} = e^6 + 2 \quad k \in N$$

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

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# FORMULAS

FORMULA No.

D103

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$k \in \mathbb{N}$

$$\prod_{k=1}^{k=\infty} \left\{ 1 + \frac{2 \times \{2 \times (k+2) \times [(k+1) \times p_{k+2} - k \times p_k] + k \times p_k \times p_{k+1} \times p_{k+2}\}}{[(k-1) \times k \times p_k \times p_{k+1} - 4 \times (k+1)] \times (k+2) \times p_{k+2}} \right\} = -1 \frac{1}{2}$$

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

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# FORMULAS

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

FORMULA No.

**D104**

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$$\sum_{k=1}^{k=\infty} \frac{\sin(11 \times k) \times \cos(13 \times k)}{k} = \frac{3 \times \pi - 11}{2} \quad k \in \mathbb{N}$$

**NEW MATHEMATICAL FORMULA DAILY**

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# FORMULAS

FORMULA No.

**D105**

'The laws of nature are but the mathematical thoughts of God.'  
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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{3 \times p_{k+1} \times p_{k+3} \times (9 \times p_{k+2} - p_k) - p_k \times p_{k+2} \times (9 \times p_{k+3} - p_{k+1})}{p_k \times p_{k+1} \times p_{k+2} \times p_{k+3} \times 3^k} = 4 \frac{3}{10}$$

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

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# FORMULAS

FORMULA No.

**D106**

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$$\sum_{k=1}^{k=\infty} \frac{26 \times [(k+4) \times p_{k+1} - p_k] - (k+4)! \times (p_{k+1} - p_k)}{p_k \times p_{k+1} \times (k+4)!} = \frac{1}{24}$$

$k \in N$

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

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# FORMULAS

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



FORMULA No.

**D107**

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$$\prod_{k=1}^{k=\infty} \left\{ 1 - \frac{4 \times k}{[2 \times (k - 1) \times k + 1] \times (2 \times k + 1)^2} \right\} = \frac{1}{2} \quad k \in N$$

**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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