

*In memory of Justynka, my wife*

# FORMULAS

FORMULA No.

W11

'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.

**D111**

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$$\sum_{k=1}^{k=\infty} \frac{2 \times (k+1) \times p_{k+3} \times p_{k+2}! - p_{k+2} \times p_{k+1}!}{p_{k+2} \times p_{k+3} \times 2^k \times (k+1)! \times p_{k+1}! \times p_{k+2}!} = \frac{1}{30}$$

$k \in N$

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

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# FORMULAS

FORMULA No.

D112

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times [p_k \times p_{k+1} + p_k^2 + p_{k+1}^2 + 2 \times (p_k + p_{k+1}) + 1]}{p_k \times (p_k + 1)^2 \times p_{k+1} \times (p_{k+1} + 1)^2} = \frac{1}{18}$$

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

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FORMULA No.

**D113**

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{2 \times p_k \times p_{k+1} - (k - 9) \times p_{k+1} + (k + 12) \times p_k + 55}{(k + 1) \times (k + 2) \times (2 \times p_k + 11) \times (2 \times p_{k+1} + 11)} = \frac{7}{30}$$

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

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FORMULA No.

**D114**

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

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

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# FORMULAS

FORMULA No.

**D115**

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(k+4)^2 \times (p_k^2 + 1) \times p_{k+1}^2 - (k+2)^2 \times p_k^2}{(k+2)^2 \times (k+3)^2 \times (k+4)^2 \times p_k^2 \times p_{k+1}^2} = \frac{192 \times \pi^2 - 1887}{576}$$

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

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**D116**

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k + 2 \times p_k \times p_{k+1}) \times k + 3 \times p_{k+1} - p_k + 6 \times p_k \times p_{k+1}}{(k+1) \times (k+2) \times (k+3) \times p_k \times p_{k+1}} = 1 \frac{1}{12}$$

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

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**D117**

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$$\sum_{k=1}^{k=\infty} \frac{3 \times (k+1) \times p_{k+2}^2 - p_{k+1}^2}{p_{k+1}^2 \times p_{k+2}^2 \times (k+1)! \times 3^k} = \frac{1}{9} \quad k \in \mathbb{N}$$

$p_k$  ( $k$ -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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