

*In memory of Justynka, my wife*

# FORMULAS

FORMULA No.

**W32**

'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.

**D321**

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{[(8 \times p_k^2 + 11 \times p_{k+2}^2) \times p_{k+1}^2 - 19 \times p_k^2 \times p_{k+2}^2] \times 2^{3 \times k - 1}}{p_k^2 \times p_{k+1}^2 \times p_{k+2}^2 \times 11^k} = \frac{5}{9}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2} + k - 1) \times [6 \times p_{k+3} - 7 \times p_{k+2} + p_{k+1} + 5]}{(p_{k+2} - p_{k+1} + 1) \times (p_{k+3} - p_{k+2} + 1) \times 6^k} = 1 \frac{13}{15} \quad k \in \mathbb{N}$$

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

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{4 \times (k+3) \times (k+4) \times (k+5) \times p_k^2 \times p_{k+1}^2 + (k^2 + k - 2) \times (k+2) \times (k+5) \times p_{k+1}^2 - k^2 \times (k+3)^2 \times p_k^2}{k \times (k+1) \times (k+2) \times (k+3) \times (k+4) \times (k+5) \times p_k^2 \times p_{k+1}^2} = 1$$

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

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

$k \in \mathbb{N}$

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

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(7 \times p_k + 3) \times (p_{k+2} - p_{k+1}) \times p_{k+3} - 3 \times (p_{k+3} - p_{k+2}) \times p_k}{p_k \times p_{k+1} \times p_{k+2} \times p_{k+3}} = 2 \frac{8}{15}$$

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

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{[(k+1) \times p_{k+1} - p_k] \times (k+2) \times (p_k^2 + 1) \times p_{k+1}^2 \times p_{k+2} - [(k+2) \times p_{k+2} - p_{k+1}] \times p_k^3}{(k+2)! \times p_k^3 \times p_{k+1}^3 \times p_{k+2}} = \frac{7}{12}$$

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

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

$k \in N$

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

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We invite you every  
week and every day  
to our website  
[www.and-just-math.com](http://www.and-just-math.com)

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