

*In memory of Justynka, my wife*

# FORMULAS

FORMULA No.

**W22**

'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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FORMULA No.

**D221**

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times [135 \times p_k \times p_{k+1} - 14 \times (p_k + p_{k+1})]}{p_k^2 \times p_{k+1}^2} = 64$$

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

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(2 \times p_{k+1} - 2 \times p_k + 5 \times p_k \times p_{k+1}) \times k + 6 \times p_{k+1} - 2 \times p_k + 15 \times p_k \times p_{k+1}}{(k+1) \times (k+2) \times (k+3) \times p_k \times p_{k+1}} = 2 \frac{2}{3}$$

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

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(5 \times p_k + 1) \times p_{k+1} \times k + 10 \times p_k \times p_{k+1} + 2 \times p_{k+1} - p_k}{p_k \times p_{k+1} \times (k + 2)!} = 5 \times e - 9 \frac{3}{4}$$

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

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(4 \times p_k + 3) \times (p_{k+2} - p_{k+1}) \times p_{k+3} - 3 \times (p_{k+3} - p_{k+2}) \times p_k}{p_k \times p_{k+1} \times p_{k+2} \times p_{k+3}} = 1 \frac{8}{15}$$

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

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{k \times (p_{k+10} \times p_{k+11} + p_{k+11} \times p_{k+12} - 2 \times p_{k+10} \times p_{k+12})}{p_{k+10} \times p_{k+11} \times p_{k+12}} = \frac{1}{31}$$

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

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{k \times [p_{k+5} \times p_{k+6} \times k^2 - (2 \times p_{k+4} - p_{k+5}) \times p_{k+6} \times k - (2 \times p_{k+6} - p_{k+5}) \times p_{k+4}]}{p_{k+4} \times p_{k+5} \times p_{k+6} \times (k+1)!} = \frac{1}{11}$$

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

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$k \in N$

$$\sum_{k=1}^{k=\infty} (k + 1) \times (p_k \times 5^{3-p_k} - 2 \times p_{k+1} \times 5^{3-p_{k+1}} + p_{k+2} \times 5^{3-p_{k+2}}) = 17$$

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

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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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