

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W25

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



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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'The laws of nature are but the mathematical thoughts of God.'
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FORMULA No.

D251

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2} - p_{k+1}) \times [p_{k+1} \times p_{k+2} + 3 \times (p_{k+1} + p_{k+2}) \times \ln 5] - p_{k+1} \times p_{k+2} \times \left(p_{k+2} \times 5^{\frac{3}{p_{k+1}}} - p_{k+1} \times 5^{\frac{3}{p_{k+2}}} \right)}{p_{k+1}^2 \times p_{k+2}^2} = \frac{\ln 5 - 4}{3}$$

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{(k+2) \times (p_{k+2}^2 \times p_{k+3} - p_{k+1}^3) + p_{k+2}^2 \times p_{k+3}}{(k+2) \times (k+3) \times p_{k+1}^3 \times p_{k+2}^3 \times p_{k+3}} = \frac{1}{405}$$

$k \in N$

p_k (k -th prime number)

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$k \in N$

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

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{p_k \times p_{k+1} - (k-3) \times p_{k+1} + (k+6) \times p_k + 20}{(k+1) \times (k+2) \times (p_k+5) \times (p_{k+1}+5)} = \frac{3}{7} \quad k \in N$$

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{(k+2) \times p_{k+1} - (k+1) \times p_k + 7}{(k+1) \times (k+2) \times (p_k + 7) \times (p_{k+1} + 7)} = \frac{1}{18}$$

$k \in N$

p_k (k -th prime number)

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{[(k+5) \times (p_k! - 1) \times p_{k+1}! - 2 \times (p_{k+1}! - p_k!)] \times 2^k}{(k+7)! \times p_k! \times p_{k+1}!} = \frac{1}{5040}$$

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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We invite you every
week and every day
to our website
www.and-just-math.com

Thanks for:
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