

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W53

'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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FORMULAS

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FORMULA No.

D531

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$$\sum_{k=1}^{k=\infty} \frac{5 \times p_{k+4} - p_{k+3}}{5^k \times p_{k+3} \times p_{k+4}} = \frac{1}{7} \quad k \in \mathbb{N}$$

p_k (k-th prime number)

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D532

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$k \in N$

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

p_k (k -th prime number)

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

p_k (k -th prime number)

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$k \in N$

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

p_k (k -th prime number)

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D015

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$$\sum_{k=1}^{k=\infty} \frac{\sin(2025 \times k) \times \cos(2026 \times k)}{k} = \frac{644 \times \pi - 2025}{2} \quad k \in \mathbb{N}$$

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FORMULA No.

D016

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

$k \in N$

p_k (k -th prime number)

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FORMULAS

FORMULA No.

D017

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$$\sum_{k=1}^{k=\infty} \frac{[(k+2) \times p_{k+2} - p_{k+1}] \times (k+1)!}{[3 \times (k+1)! \times p_{k+1} - 2] \times [3 \times (k+2)! \times p_{k+2} - 2]} = \frac{1}{48}$$

$k \in \mathbb{N}$

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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