

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

In memory of Justynka, my wife

FORMULAS

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FORMULA No.

D531

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$$\sum_{k=1}^{k=\infty} \frac{\sin(7 \times k) \times \cos(8 \times k)}{k} = \frac{2 \times \pi - 7}{2} \quad k \in \mathbb{N}$$

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FORMULA No.

D532

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$$\sum_{k=1}^{k=\infty} \frac{4 \times k^4 + 32 \times k^3 + 101 \times k^2 + 144 \times k + 77}{(k+1)^2 \times (k+2)^2 \times (2 \times k + 3) \times (2 \times k + 5)} = \frac{10 \times \pi^2 - 57}{60} \quad k \in \mathbb{N}$$

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D533

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$$\sum_{k=1}^{k=\infty} \frac{\sin(2024 \times k) \times \cos(2025 \times k)}{k} = 46 \times (7 \times \pi - 22) \quad k \in \mathbb{N}$$

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FORMULA No.

D014

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

$k \in N$

p_k (k -th prime number)

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D015

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{2 \times p_k \times p_{k+1} - (k - 8) \times p_{k+1} + (k + 11) \times p_k + 45}{(k + 1) \times (k + 2) \times (p_k + 5) \times (p_{k+1} + 5)} = \frac{13}{14}$$

p_k (k -th prime number)

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{[(k+3) \times (p_k! - 1) \times p_{k+1}! - 2 \times (p_{k+1}! - p_k!)] \times 2^k}{(k+5)! \times p_k! \times p_{k+1}!} = \frac{1}{120}$$

p_k (k -th prime number)

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

p_k (k-th prime number)

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

Thanks for:
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Photo Gordon Johnson z Pixabay
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