

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W05

'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.

D051

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$$\sum_{k=1}^{k=\infty} \frac{(k+1) \times (k+3) \times p_{k+2} - (k+2) \times p_k}{p_k \times p_{k+1} \times p_{k+2} \times (k+3)!} = \frac{1}{18} \quad k \in \mathbb{N}$$

p_k (k -th prime number)

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FORMULA No.

D052

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$$\sum_{k=1}^{k=\infty} \frac{p_{k+3} \times \left(p_k^{\frac{1}{p_k}} - 1 \right) - p_{k+1} \times \left(p_{k+1}^{\frac{1}{p_{k+1}}} - 1 \right)}{p_{k+1} \times p_{k+2} \times p_{k+3}} = \frac{\sqrt{2} - 1}{15} \quad k \in N$$

p_k (k -th prime number)

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times [p_k \times p_{k+1} + p_k^2 + p_{k+1}^2 + 4 \times (p_k + p_{k+1}) + 3]}{p_k \times (p_k + 1) \times (p_k + 3) \times p_{k+1} \times (p_{k+1} + 1) \times (p_{k+1} + 3)} = \frac{1}{30}$$

p_k (k -th prime number)

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D054

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$k \in N$

$$\sum_{k=1}^{\infty} \frac{(p_{k+2} - p_{k+1}) \times [p_{k+1} \times p_{k+2} + (p_{k+1} + p_{k+2}) \times \ln 2] - p_{k+1} \times p_{k+2} \times \left(p_{k+2} \times 2^{\frac{1}{p_{k+1}}} - p_{k+1} \times 2^{\frac{1}{p_{k+2}}} \right)}{p_{k+1}^2 \times p_{k+2}^2} = \frac{3 - 3 \times 2^{\frac{1}{3}} + \ln 2}{9}$$

p_k (k -th prime number)

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D055

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$$\sum_{k=1}^{k=\infty} \frac{p_{k+2} \times p_{k+3} \times \ln(p_{k+1}) - p_{k+1}^2 \times \ln(p_{k+2})}{p_{k+1}^2 \times p_{k+2}^2 \times p_{k+3}} = \frac{\ln(3)}{45} \quad k \in \mathbb{N}$$

p_k (k-th prime number)

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$k \in \mathbb{N}$

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

p_k (k -th prime number)

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$k \in N$

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

p_k (k -th prime number)

NEW MATHEMATICAL FORMULA DAILY



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
Photo lange-adrian z Pixabay