

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W36

'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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FORMULA No.

D361

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

$k \in N$

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{k \times (k+2) \times (p_k^2 + 1) \times p_{k+1}^2 - (k+1) \times p_k^2}{p_k^2 \times p_{k+1}^2 \times (k+2)!} = 1 \frac{1}{8} \quad k \in N$$

p_k (k-th prime number)

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{3 \times (k+1) \times (k+3) \times p_{k+2} \times p_{k+4} - (k+2) \times p_{k+1} \times p_{k+3}}{p_{k+1} \times p_{k+2} \times p_{k+3} \times p_{k+4} \times (k+3)! \times 3^{k-2}} = \frac{1}{7}$$

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{3^{k+1} \times [(k+2) \times p_{k+4}! - 3 \times p_{k+3}!]}{(k+2)! \times p_{k+3}! \times p_{k+4}!} = \frac{1}{1120} \quad k \in \mathbb{N}$$

p_k (k-th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{2 \times (k+1) \times p_{k+7} \times p_{k+2}! - p_{k+6} \times p_{k+1}!}{p_{k+6} \times p_{k+7} \times 2^{k-1} \times (k+1)! \times p_{k+1}! \times p_{k+2}!} = \frac{1}{51}$$

$k \in \mathbb{N}$

p_k (k -th prime number)

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

p_k (k -th prime number)

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(3 \times p_k + 5) \times p_{k+1} \times k + 6 \times p_k \times p_{k+1} + 10 \times p_{k+1} - 5 \times p_k}{p_k \times p_{k+1} \times (k + 2)!} = 3 \times e - 4 \frac{3}{4}$$

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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