

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W38



'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.

D381

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$$\sum_{k=1}^{k=\infty} \frac{5 \times (k+1) \times p_{k+2}^2 - p_{k+1}^2}{p_{k+1}^2 \times p_{k+2}^2 \times (k+1)! \times 5^k} = \frac{1}{9} \quad k \in \mathbb{N}$$

p_k (k-th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{[11 \times (p_k^2 + 1) \times p_{k+1}^2 - 2 \times p_k^2] \times 2^{k-1}}{p_k^2 \times p_{k+1}^2 \times 11^k} = 1 \frac{17}{36} \quad k \in \mathbb{N}$$

p_k (k -th prime number)

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(p_k + 1) \times p_{k+1} \times (p_{k+2} - p_{k+1}) \times (p_{k+3} + 7) - p_k \times (p_{k+1} + 7) \times (p_{k+3} - p_{k+2})}{p_k \times p_{k+1} \times (p_{k+1} + 7) \times (p_{k+2} + 7) \times (p_{k+3} + 7)} = \frac{13}{120}$$

p_k (k -th prime number)

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(k+1) \times [p_{k+1} \times p_{k+2} - 2 \times p_{k+1} \times p_{k+3} + p_{k+2} \times p_{k+3} + 10 \times (2 \times p_{k+2} - p_{k+1} - p_{k+3})]}{(p_{k+1} + 10) \times (p_{k+2} + 10) \times (p_{k+3} + 10)} = \frac{17}{195}$$

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{5 \times (k+1) \times p_{k+8} \times p_{k+2}! - p_{k+7} \times p_{k+1}!}{p_{k+7} \times p_{k+8} \times 5^k \times (k+1)! \times p_{k+1}! \times p_{k+2}!} = \frac{1}{114}$$

$k \in \mathbb{N}$

p_k (k -th prime number)

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

p_k (k -th prime number)

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times (2 \times p_k \times p_{k+1} - p_k - p_{k+1} - 4)}{(10 \times p_k^2 + 14 \times p_k + 13) \times (10 \times p_{k+1}^2 + 14 \times p_{k+1} + 13)} = \frac{1}{270}$$

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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