

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W41



'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

FORMULA No.

D411

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(5 \times p_k + 3) \times (p_{k+2} - p_{k+1}) \times p_{k+3} - 3 \times (p_{k+3} - p_{k+2}) \times p_k}{p_k \times p_{k+1} \times p_{k+2} \times p_{k+3}} = 1 \frac{13}{15}$$

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{(k+2) \times p_{k+1} - (k+1) \times p_k + 7}{(k+1) \times (k+2) \times (p_k + 7) \times (p_{k+1} + 7)} = \frac{1}{18}$$

$k \in N$

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{p_k \times p_{k+1} - (k - 5) \times p_{k+1} + (k + 8) \times p_k + 42}{(k + 1) \times (k + 2) \times (p_k + 7) \times (p_{k+1} + 7)} = \frac{4}{9}$$

$k \in N$

p_k (k -th prime number)

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(k+5) \times (p_{k+1}! - p_k!) \times p_{k+2}! - p_k! \times (p_{k+2}! - p_{k+1}!)}{(k+5)! \times p_k! \times p_{k+1}! \times p_{k+2}!} = \frac{1}{360}$$

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{(k+6) \times (p_k! - 1) \times p_{k+1}! - p_{k+1}! + p_k!}{(k+7)! \times p_k! \times p_{k+1}!} = \frac{1}{10080} \quad k \in N$$

p_k (k -th prime number)

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(p_k + 1) \times p_{k+1} \times (p_{k+2} - p_{k+1}) \times (p_{k+3} + 9) - p_k \times (p_{k+1} + 9) \times (p_{k+3} - p_{k+2})}{p_k \times p_{k+1} \times (p_{k+1} + 9) \times (p_{k+2} + 9) \times (p_{k+3} + 9)} = \frac{5}{56}$$

p_k (k -th prime number)

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{5 \times (k+1) \times (k+3) \times p_{k+2} \times p_{k+4} - (k+2) \times p_{k+1} \times p_{k+3}}{p_{k+1} \times p_{k+2} \times p_{k+3} \times p_{k+4} \times (k+3)! \times 5^k} = \frac{1}{63}$$

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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