

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W52

'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.

D521

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$$\sum_{k=1}^{k=\infty} \frac{5 \times (k+1) \times p_{k+6} \times p_{k+2}! - p_{k+5} \times p_{k+1}!}{p_{k+5} \times p_{k+6} \times 5^k \times (k+1)! \times p_{k+1}! \times p_{k+2}!} = \frac{1}{78}$$

$k \in \mathbb{N}$

p_k (k -th prime number)

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$k \in N$

$$\sum_{k=1}^{k=\infty} (k + 1) \times (p_k^5 \times 5^{3-p_k} - 2 \times p_{k+1}^5 \times 5^{3-p_{k+1}} + p_{k+2}^5 \times 5^{3-p_{k+2}}) = 77$$

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{(k+2) \times (p_k^5 - 1) \times p_{k+1}^7 - (p_{k+1}^5 - 1) \times p_k^7}{p_k^7 \times p_{k+1}^7 \times (k+2)!} = \frac{31}{256}$$

$k \in \mathbb{N}$

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{5 \times (k+1) \times p_{k+2} \times p_{k+8} - p_{k+1} \times p_{k+7}}{p_{k+1} \times p_{k+2} \times p_{k+7} \times p_{k+8} \times (k+1)! \times 5^k} = \frac{1}{57}$$

$k \in N$

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{[(p_k + 1) \times p_{k+1} \times (k + 2) - 5 \times p_k] \times 5^{k+1}}{p_k \times p_{k+1} \times (k + 2)!} = e^5 + \frac{1}{4} \quad k \in N$$

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{7^{k-1} \times [(k+2) \times p_{k+1}! - 7 \times p_k!]}{(k+2)! \times p_k! \times p_{k+1}!} = \frac{1}{4} \quad k \in N$$

p_k (k-th prime number)

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{14 \times [(k+3) \times p_{k+1}^3 - p_k^3] - (k+3)! \times (p_{k+1}^3 - p_k^3)}{p_k^3 \times p_{k+1}^3 \times (k+3)!} = \frac{1}{6}$$

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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