

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W40

'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

FORMULA No.

D401

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$k \in \mathbb{N}$

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

p_k (k -th prime number)

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D402

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

$k \in \mathbb{N}$

p_k (k -th prime number)

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$k \in \mathbb{N}$

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

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{11^{k-1} \times [(k+2) \times p_{k+3}! - 11 \times p_{k+2}!]}{(k+2)! \times p_{k+2}! \times p_{k+3}!} = \frac{1}{240} \quad k \in N$$

p_k (k-th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{k \times p_{k+5}^2 - p_{k+4}^2}{k! \times p_{k+4}^2 \times p_{k+5}^2} = \frac{1}{121} \quad k \in \mathbb{N}$$

p_k (k -th prime number)

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

$k \in \mathbb{N}$

p_k (k -th prime number)

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

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
Photo lange-adrian z Pixabay