

In memory of Justynka, my wife

FORMULAS

'The laws of nature are but the mathematical thoughts of God.'
Euclid

FORMULA No.

W19

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.

D191

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

p_k (k -th prime number)

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$k \in \mathbb{N}$

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

p_k (k -th prime number)

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FORMULA No.

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{4 \times p_{k+1} \times p_{k+3} \times (16 \times p_{k+2} - p_k) - p_k \times p_{k+2} \times (16 \times p_{k+3} - p_{k+1})}{p_k \times p_{k+1} \times p_{k+2} \times p_{k+3} \times 4^k} = 7 \frac{8}{10}$$

p_k (k -th prime number)

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{k \times (k+1) \times (5 \times k + 2) \times p_k \times p_{k+1} + 3 \times (k+1) \times p_{k+1} - k \times (5 \times k + 7) \times p_k + 2}{(k \times p_k - 1) \times [(k+1) \times p_{k+1} - 1] \times (k+1)!} = 2 \times (e + 3)$$

p_k (k -th prime number)

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$k \in N$

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

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{7 \times (k+1) \times p_{k+2} \times p_{k+9} - p_{k+1} \times p_{k+8}}{p_{k+1} \times p_{k+2} \times p_{k+8} \times p_{k+9} \times (k+1)! \times 7^k} = \frac{1}{69}$$

$k \in \mathbb{N}$

p_k (k -th prime number)

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

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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