

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W49



'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

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FORMULA No.

D491

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$$\sum_{k=1}^{k=\infty} \frac{3 \times p_{k+3}^3 - p_{k+2}^3}{3^k \times p_{k+2}^3 \times p_{k+3}^3} = \frac{1}{125} \quad k \in \mathbb{N}$$

p_k (k-th prime number)

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D492

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$k \in \mathbb{N}$

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

p_k (k -th prime number)

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D493

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{k \times (p_{k+5} \times p_{k+6} + p_{k+6} \times p_{k+7} - 2 \times p_{k+5} \times p_{k+7})}{p_{k+5} \times p_{k+6} \times p_{k+7}} = \frac{1}{13}$$

p_k (k -th prime number)

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$k \in N$

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

p_k (k -th prime number)

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(k+2) \times (p_k^7 - 1) \times p_{k+1}^2 - (p_{k+1}^7 - 1) \times p_k^2}{p_k^2 \times p_{k+1}^2 \times (k+2)!} = 15 \frac{7}{8}$$

p_k (k -th prime number)

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{3 \times (k+1) \times p_{k+2} \times p_{k+8} - p_{k+1} \times p_{k+7}}{p_{k+1} \times p_{k+2} \times p_{k+7} \times p_{k+8} \times (k+1)! \times 3^{k-1}} = \frac{1}{19}$$

p_k (k -th prime number)

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{2 \times (p_k + 1) \times p_{k+1} \times (k + 2) \times (2 \times k + 1) - p_k \times (2 \times k + 3)}{p_k \times p_{k+1} \times 2^{k+2} \times (k + 2)!} = \frac{11}{16}$$

p_k (k -th prime number)

NEW MATHEMATICAL FORMULA DAILY



We invite you every
week and every day
to our website
www.and-just-math.com

Thanks for:

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