

In memory of Justynka, my wife

FORMULAS

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



FORMULA No.

W13

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.

D131

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$$\prod_{k=1}^{k=\infty} \left\{ 1 - \frac{6 \times (p_{k+2} - p_k)}{(5 \times p_k \times p_{k+1} + 6) \times p_{k+2}} \right\} = \frac{5}{6} \quad k \in N$$

p_k (k-th prime number)

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{p_{k+2} \times k^2 + (6 \times p_{k+2} - p_{k+1}) \times k + 8 \times p_{k+2} - 3 \times p_{k+1}}{p_{k+1} \times p_{k+2} \times (k+4)!} = \frac{1}{24}$$

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{(k+2) \times (k+3) \times 3^{p_{k+4}-p_{k+3}} - 1}{3^{p_{k+4}-8} \times (k+2)! \times (k+3)!} = \frac{1}{4} \quad k \in \mathbb{N}$$

p_k (k-th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{(k+1) \times (p_{k+3} + k + 1)! - (p_{k+2} + k)!}{(k+1)! \times (p_{k+2} + k)! \times (p_{k+3} + k + 1)!} = \frac{1}{720} \quad k \in \mathbb{N}$$

p_k (k -th prime number)

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(k+1)^{p_{k+3}-2} \times (k+2)^2 \times (k+3) - k^{p_{k+2}}}{k^{p_{k+2}} \times (k+1)^{p_{k+3}} \times (k+1)! \times (k+2)^3 \times (k+3)} = \frac{1}{24}$$

p_k (k -th prime number)

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$k \in \mathbb{N}$

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

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1}! + k) \times (3 \times p_{k+2}! - 4 \times p_{k+1}! + p_k! + 2)}{(p_{k+1}! - p_k! + 1) \times (p_{k+2}! - p_{k+1}! + 1) \times 3^k} = 1 \frac{9}{10} \quad k \in \mathbb{N}$$

p_k (k -th prime number)

NEW MATHEMATICAL FORMULA DAILY



We invite you every
week and every day
to our website
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Thanks for:
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