

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W39



'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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FORMULAS

FORMULA No.

D391

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$$\sum_{k=1}^{k=\infty} \frac{[(k+1) \times (p_k^2 + 1) \times p_{k+1}^2 - 7 \times p_k^2] \times 7^k}{p_k^2 \times p_{k+1}^2 \times (k+1)!} = e^7 + \frac{3}{4} \quad k \in N$$

p_k (k -th prime number)

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$k \in N$

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

p_k (k -th prime number)

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2} - p_{k+1}) \times k + 8 \times (p_{k+2} - p_k) \times p_{k+1} + p_{k+2}}{p_{k+1} \times p_{k+2} \times (8 \times p_k + k) \times (8 \times p_{k+1} + k + 1)} = \frac{1}{51}$$

p_k (k -th prime number)

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{[(k+2) \times (p_k! - 1) \times p_{k+1}! - 3 \times (p_{k+1}! - p_k!)] \times 3^k}{(k+5)! \times p_k! \times p_{k+1}!} = \frac{1}{80}$$

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{p_k \times p_{k+1} - (k-2) \times p_{k+1} + (k+5) \times p_k + 12}{(k+1) \times (k+2) \times (p_k+4) \times (p_{k+1}+4)} = \frac{5}{12} \quad k \in N$$

p_k (k-th prime number)

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

p_k (k -th prime number)

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(3 \times p_k + 4) \times p_{k+1} \times k + 6 \times p_k \times p_{k+1} + 8 \times p_{k+1} - 4 \times p_k}{p_k \times p_{k+1} \times (k + 2)!} = 3 \times e - 5$$

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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Photo Gordon Johnson z Pixabay
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