

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W30

'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

'The laws of nature are but the mathematical thoughts of God.'
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FORMULA No.

D301

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

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D302

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$$\sum_{k=1}^{k=\infty} \frac{3 \times (k+1) \times p_{k+2} \times p_{k+7} - p_{k+1} \times p_{k+6}}{p_{k+1} \times p_{k+2} \times p_{k+6} \times p_{k+7} \times (k+1)! \times 3^{k-1}} = \frac{1}{17}$$

$k \in \mathbb{N}$

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{(k+2) \times p_{k+1} - (k+1) \times p_k + 10}{(k+1) \times (k+2) \times (p_k + 10) \times (p_{k+1} + 10)} = \frac{1}{24}$$

$k \in \mathbb{N}$

p_k (k -th prime number)

NEW MATHEMATICAL FORMULA DAILY

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FORMULAS

FORMULA No.

D304

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$k \in N$

$$\sum_{k=1}^{k=\infty} (k+1) \times (p_k^2 \times 5^{3-p_k} - 2 \times p_{k+1}^2 \times 5^{3-p_{k+1}} + p_{k+2}^2 \times 5^{3-p_{k+2}}) = 31$$

p_k (k -th prime number)

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FORMULA No.

D305

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(k+1) \times [p_{k+1} \times p_{k+2} - 2 \times p_{k+1} \times p_{k+3} + p_{k+2} \times p_{k+3} + 6 \times (2 \times p_{k+2} - p_{k+1} - p_{k+3})]}{(p_{k+1} + 6) \times (p_{k+2} + 6) \times (p_{k+3} + 6)} = \frac{13}{99}$$

p_k (k -th prime number)

NEW MATHEMATICAL FORMULA DAILY

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FORMULAS

FORMULA No.

D306

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(11 \times p_k + 2) \times p_{k+1} \times k + 22 \times p_k \times p_{k+1} + 4 \times p_{k+1} - 2 \times p_k}{p_k \times p_{k+1} \times (k+2)!} = 11 \times e - 21 \frac{1}{2}$$

p_k (k -th prime number)

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FORMULAS

FORMULA No.

D307

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(7 \times p_k + 2) \times (p_{k+2} - p_{k+1}) \times p_{k+3} - 2 \times (p_{k+3} - p_{k+2}) \times p_k}{p_k \times p_{k+1} \times p_{k+2} \times p_{k+3}} = 2 \frac{7}{15}$$

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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