

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W29

'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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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2} - p_{k+1}) \times [p_{k+1} \times p_{k+2} + 3 \times (p_{k+1} + p_{k+2}) \times \ln 7] - p_{k+1} \times p_{k+2} \times \left(p_{k+2} \times 7^{\frac{3}{p_{k+1}}} - p_{k+1} \times 7^{\frac{3}{p_{k+2}}} \right)}{p_{k+1}^2 \times p_{k+2}^2} = \frac{\ln 7 - 6}{3}$$

p_k (*k*-th prime number)

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times [p_k \times p_{k+1} + p_k^2 + p_{k+1}^2 + 8 \times (p_k + p_{k+1}) + 7]}{p_k \times (p_k + 1) \times (p_k + 7) \times p_{k+1} \times (p_{k+1} + 1) \times (p_{k+1} + 7)} = \frac{1}{54}$$

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{p_k \times p_{k+1} - (k-1) \times p_{k+1} + (k+4) \times p_k + 6}{(k+1) \times (k+2) \times (p_k+3) \times (p_{k+1}+3)} = \frac{2}{5} \quad k \in N$$

p_k (k -th prime number)

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$k \in N$

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

p_k (k -th prime number)

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

$k \in N$

p_k (k -th prime number)

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2} + k - 1) \times [5 \times p_{k+3} - 6 \times p_{k+2} + p_{k+1} + 4]}{(p_{k+2} - p_{k+1} + 1) \times (p_{k+3} - p_{k+2} + 1) \times 5^k} = 1 \frac{11}{12}$$

p_k (k -th prime number)

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+6} - p_{k+5}) \times (p_k^2 + 1) \times p_{k+1}^2 \times p_{k+7} - (p_{k+7} - p_{k+6}) \times p_{k+5} \times p_k^2}{p_k^2 \times p_{k+1}^2 \times p_{k+5} \times p_{k+6} \times p_{k+7}} = \frac{18}{221}$$

p_k (k -th prime number)

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

Thanks for:
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