

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W48



'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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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} (k+1) \times (p_k^5 \times 2^{2 \times (3-p_k)} - 2 \times p_{k+1}^5 \times 2^{2 \times (3-p_{k+1})} + p_{k+2}^5 \times 2^{2 \times (3-p_{k+2})}) = 13$$

p_k (k -th prime number)

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2} - p_{k+1}) \times k + 5 \times (p_{k+2} - p_k) \times p_{k+1} + p_{k+2}}{p_{k+1} \times p_{k+2} \times (5 \times p_k + k) \times (5 \times p_{k+1} + k + 1)} = \frac{1}{33}$$

p_k (k -th prime number)

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$$\sum_{k=1}^{k=\infty} \frac{[(k+1) \times (p_k! - 1) \times p_{k+1}! - 5 \times (p_{k+1}! - p_k!)] \times 5^k}{(k+6)! \times p_k! \times p_{k+1}!} = \frac{1}{288}$$

$k \in \mathbb{N}$

p_k (k -th prime number)

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{2 \times (k + 1) \times p_{k+6} \times p_{k+2}! - p_{k+5} \times p_{k+1}!}{p_{k+5} \times p_{k+6} \times 2^{k-1} \times (k + 1)! \times p_{k+1}! \times p_{k+2}!} = \frac{1}{39}$$

p_k (k -th prime number)

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

$k \in N$

p_k (k -th prime number)

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$k \in N$

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

p_k (k -th prime number)

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(5 \times p_k + 2) \times p_{k+1} \times k + 10 \times p_k \times p_{k+1} + 4 \times p_{k+1} - 2 \times p_k}{p_k \times p_{k+1} \times (k + 2)!} = 5 \times e - 9 \frac{1}{2}$$

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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Photo Gordon Johnson z Pixabay
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