In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W14

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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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2}{}^2 - p_{k+1} \times p_{k+3}) \times p_{k+3} \times k - 2 \times p_{k+1} \times p_{k+3}{}^2 + (p_{k+2} \times p_{k+3} + p_{k+1} \times p_{k+4}) \times p_{k+2}}{p_{k+1} \times p_{k+2} \times p_{k+3} \times (k+1)!} = \frac{4}{15}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times (p_{k+6} \times p_{k+7} + p_{k+7} \times p_{k+8} - 2 \times p_{k+6} \times p_{k+8})}{p_{k+6} \times p_{k+7} \times p_{k+8}} = \frac{1}{17}$$

p_k *(k-th prime number)*

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$$k \in N$$

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

p_k (k-th prime number)

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} (k+1) \times ({p_k}^7 \times 5^{3-p_k} - 2 \times {p_{k+1}}^7 \times 5^{3-p_{k+1}} + {p_{k+2}}^7 \times 5^{3-p_{k+2}}) = -907$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[(4 \times {p_k}^2 + 9 \times {p_{k+2}}^2) \times {p_{k+1}}^2 - 13 \times {p_k}^2 \times {p_{k+2}}^2] \times 2^{2 \times k}}{{p_k}^2 \times {p_{k+1}}^2 \times {p_{k+2}}^2 \times 3^{2 \times k - 2}} = 5$$

p_k (k-th prime number)

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$$k \in N$$

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

p_k (k-th prime number)

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_k{}^2 + 1) \times p_{k+1}{}^2 \times (p_{k+8} - p_{k+7}) \times p_{k+9} - p_k{}^2 \times (p_{k+9} - p_{k+8}) \times p_{k+7}}{p_k{}^2 \times p_{k+1}{}^2 \times p_{k+7} \times p_{k+8} \times p_{k+9}} = \frac{24}{437}$$

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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