In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W07

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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D071

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times [5 \times (k+2) \times k! + 7]}{(k+1)! \times (5 \times k! + 7) \times [5 \times (k+1)! + 7]} = \frac{1}{12}$$

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$$\prod_{k=1}^{k=\infty}\left[1-\frac{7}{(4\times k+7)\times(27\times k+22)}\right]=\frac{27}{28} \qquad k\in N$$

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$$k \in N$$

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

p_k (k-th prime number)

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$$k \in N$$

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

p_k *(k-th prime number)*

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$$k \in N$$

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

p_k *(k-th prime number)*

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$$k \in N$$

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

p_k *(k-th prime number)*

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$$k \in N$$

$$\prod_{k=1}^{k=\infty} \left\{ 1 + \frac{(k+1) \times p_k \times ln(p_{k+1}) - k \times p_{k+1} \times ln(p_{k+2})}{p_{k+1} \times (k \times ln(p_k) - p_k)} \right\} = 0$$

p_k *(k-th prime number)*

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Thanks for:
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