In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W16

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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D161

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+2)^3 \times (8 \times p_{k+1} \times {p_{k+2}}^3 + 1) \times {p_{k+3}}^3 - k^3 \times (6 \times p_{k+2} \times {p_{k+3}}^3 + 1) \times p_{k+1} \times {p_{k+2}}^2}{k^3 \times (k+1)^3 \times (k+2)^3 \times p_{k+1} \times {p_{k+2}}^3 \times {p_{k+3}}^3} = \frac{62251 - 6000 \times \pi^2}{3000}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+1)\times(k+3)^2\times(7\times p_k\times p_{k+1}+1)\times p_{k+2} - k\times(k+2)^2\times(p_{k+1}\times p_{k+2}+1)\times p_k}{k\times(k+1)\times(k+2)^2\times(k+3)^2\times p_k\times p_{k+1}\times p_{k+2}} = \frac{331-27\times\pi^2}{54}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\prod_{k=1}^{k=\infty}\left[1-\frac{9\times k+8}{9\times(k+1)\times(8\times 3^{2\times k-2}\times k!+1)}\right]=\frac{8}{9}$$

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$$k \in N$$

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

p_k *(k-th prime number)*

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D165

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(7 \times k^{p_{k+1}} + 1) \times (k+1)^{p_{k+2}+3} \times (k+3)^3 - [3 \times (k+1)^{p_{k+2}} + 1] \times k^{p_{k+1}+3} \times (k+2)^3}{k^{p_{k+1}+3} \times (k+1)^{p_{k+2}+3} \times (k+2)^3 \times (k+3)^3} = \frac{599 - 54 \times \pi^2}{216}$$

p_k (k-th prime number)

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$$k \in N$$

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

p_k *(k-th prime number)*

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$$k \in N$$

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

$$= \frac{(2 \times e-1) \times e^2 + e - 1}{e^3}$$

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

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