In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W06

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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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D061

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2} + k - 1) \times [8 \times p_{k+3} - 9 \times p_{k+2} + p_{k+1} + 7]}{(p_{k+2} - p_{k+1} + 1) \times (p_{k+3} - p_{k+2} + 1) \times 2^{3 \times k}} = 1\frac{17}{21}$$

p_k (k-th prime number)

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+3} - p_{k+2}) \times (p_k{}^2 + 1) \times p_{k+1}{}^2 \times p_{k+4} - (p_{k+4} - p_{k+3}) \times p_{k+2} \times p_k{}^2}{p_k{}^2 \times p_{k+1}{}^2 \times p_{k+2} \times p_{k+3} \times p_{k+4}} = \frac{3}{14}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{17^{k-1} \times [(k+2) \times p_{k+3}! - 17 \times p_{k+2}!]}{(k+2)! \times p_{k+2}! \times p_{k+3}!} = \frac{1}{240}$$

p_k *(k-th prime number)*

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$$\prod_{k=1}^{k=\infty}\left[1+\frac{arctg\left(\frac{1}{k^2+k+1}\right)}{arctg\left(\frac{k-1}{k+1}\right)-1}\right]=\frac{4-\pi}{4} \qquad k\in N$$

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$$\prod_{k=1}^{k=\infty}\left[1-\frac{1}{(k+1)^2}\right]=\frac{1}{2} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{32 \times [(k+4) \times {p_{k+1}}^3 - {p_k}^3] - (k+4)! \times ({p_{k+1}}^3 - {p_k}^3)}{{p_k}^3 \times {p_{k+1}}^3 \times (k+4)!} = \frac{1}{24}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[4 \times (k+1)^2 \times (3 \times k! - 1) - k] \times k!}{(4 \times k! - 1) \times [4 \times (k+1)! - 1] \times [4 \times (k+2)! - 1]} = \frac{2}{21}$$

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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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