In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W12

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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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FORMULA No.

D121

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$$k \in N$$

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

p_k (k-th prime number)

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$$k \in N$$

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

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{49 \times k^4 + 189 \times k^3 + 177 \times k^2 - 35 \times k - 32}{(k+1)^2 \times (k+2)^2 \times (7 \times k - 4) \times (7 \times k + 3)} = \frac{2 \times \pi^2 - 11}{12}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3^k \times sin^3\left(\frac{\pi}{3^{k+1}}\right) \times (k+6)^2 + \left[\pi - 3^{k+1} \times sin\left(\frac{1}{3^{k+1}}\right)\right] \times (k+5)}{(k+4)^2 \times (k+5)^2 \times (k+6)^2} = \frac{2 \times \pi - 3 \times \sqrt{3}}{7200}$$

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$$\sum_{k=1}^{k=\infty} \frac{k}{196 \times k^4 - 168 \times k^2 + 1} = \frac{1}{28} \qquad k \in N$$

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D127

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3 \times k^3 + 10 \times k^2 + 27 \times k + 28}{(k+1) \times (k+2) \times (3 \times k + 1) \times (3 \times k + 4) \times (3 \times k + 7)} = \frac{1}{12}$$

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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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