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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$$k \in N$$

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

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$$k \in N$$

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

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$$\prod_{k=1}^{k=\infty}\left(5-tg^2\left(\frac{\pi}{3\times 2^{2\times k+3}}\right)-2\times\frac{tg\left(\frac{\pi}{3\times 2^{2\times k+2}}\right)}{tg\left(\frac{\pi}{3\times 2^{2\times k+3}}\right)}\right) \qquad k\in N$$

$$=\frac{\pi\times\left(\sqrt{2}+\sqrt{3}+\sqrt{6}+2\right)}{24}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^2 + 9 \times k + 21}{(k+4) \times (k+5) \times (k+5)!} = \frac{1}{600}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{7^{k-1} \times [(7 \times k + 18)^{k+1} + 49 \times (7 \times k + 4)^{k-1} - 14 \times (7 \times k + 11)^{k}]}{[(7 \times k + 18)^{k+1} - 7 \times (7 \times k + 11)^{k}] \times [(7 \times k + 11)^{k} - 7 \times (7 \times k + 4)^{k-1}]} = \frac{1}{11}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^2 - k - 1}{(7 \times k + 4) \times (7 \times k + 11) \times (11 \times k - 4) \times (11 \times k + 7)} = 0$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{12 \times k^2 - 10 \times k - 1}{(4 \times k - 3) \times (4 \times k + 1) \times (8 \times k - 7) \times (8 \times k + 1)} = \frac{1}{32}$$

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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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