In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W24

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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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^2 - k - 1}{(2 \times k + 3) \times (2 \times k + 5) \times (5 \times k - 3) \times (5 \times k + 2)} = 0$$

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$$\sum_{k=1}^{k=\infty} 3^{k-1} \times sin^3\left(\frac{\pi}{2 \times 3^k}\right) = \frac{\pi - 2}{8} \qquad k \in N$$

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{1}{81 \times k^2 - 63 \times k - 8} \overset{k \in N}{=} \frac{1}{9}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times 5^k}{(k+5)!} = \frac{1}{24}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{24 \times k^2 - 22 \times k - 1}{(22 \times k - 21) \times (22 \times k + 1) \times (4 \times k^2 - 1)} = \frac{1}{44}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{11^{k-1} \times [(11 \times k + 14)^{k+1} + 121 \times (11 \times k - 8)^{k-1} - 22 \times (11 \times k + 3)^{k}]}{[(11 \times k + 14)^{k+1} - 11 \times (11 \times k + 3)^{k}] \times [(11 \times k + 3)^{k} - 11 \times (11 \times k - 8)^{k-1}]} = \frac{1}{3}$$

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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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