In memory of Justynka, my wife

FORMULAS

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

•••

FORMULA No.

W26

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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.

D261

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{(2 \times k + 7) \times 7^k}{2^{k-4} \times (k+7)!} = \frac{1}{45} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{25 \times k^2 + 75 \times k + 49}{(5 \times k + 6) \times (5 \times k + 11) \times (k+1)! \times 5^k} = \frac{1}{11}$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[8 \times (k+1)^2 \times (7 \times k! - 5) - 5 \times k] \times k!}{(8 \times k! - 5) \times [8 \times (k+1)! - 5] \times [8 \times (k+2)! - 5]} = \frac{2}{33}$$

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$$\sum_{k=1}^{k=\infty} \frac{k^2 + 5 \times k + 1}{(k+4) \times (k+5) \times (k+1)!} = \frac{1}{5} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{(k^2 + 6 \times k - 6) \times 11^{k-1}}{(k+1)! \times (k+5)!} = \frac{1}{120} \qquad k \in N$$

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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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