In memory of Justynka, my wife

FORMULAS

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

●●●

FORMULA No.

W46

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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$$\sum_{k=1}^{k=\infty} \frac{\left(25 \times k^2 - 4\right) \times 2^{2 \times k - 2}}{k!^2 \times 5^{2 \times k}} = 1 \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+2) \times 5^k}{(k+7)!} = \frac{1}{1008}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{21 \times k^3 + 19 \times k^2 - 12 \times k - 16}{(3 \times k + 1) \times (3 \times k + 4) \times (k + 1)!} = 1$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{\left(2 \times 7^{k} - 7 \times 6^{k-1} - 6^{k}\right) \times 6^{k-1}}{7^{2 \times k}} = 1$$

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$$\sum_{k=1}^{k=\infty} \frac{\left(k^2 + 4 \times k - 4\right) \times 7^{k-1}}{(k+1)! \times (k+3)!} = \frac{1}{6} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[17 \times (k+1)^2 \times (8 \times k! - 5) - 5 \times k] \times k!}{(17 \times k! - 10) \times [17 \times (k+1)! - 10] \times [17 \times (k+2)! - 10]} = \frac{1}{56}$$

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$$k \in N$$

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

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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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