

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W39

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



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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FORMULA No.

D391

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$$\sum_{k=1}^{k=\infty} \frac{25 \times k^2 - 1}{k!^2 \times 5^{2 \times k}} = 1 \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{9 \times k^2 + 27 \times k + 17}{(3 \times k + 4) \times (3 \times k + 7) \times (k + 1)! \times 3^k} = \frac{1}{7} \quad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{(7 \times k + 9) \times 5^{k-1}}{7^k \times (k + 2)!} = \frac{1}{2} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{(2 \times 7^k - 7 \times 3^{k-1} - 3^k) \times 3^{k-1}}{7^{2 \times k}} = \frac{1}{4} \quad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{k \times [3 \times (k + 2) \times k! + 7]}{(k + 1)! \times (3 \times k! + 7) \times [3 \times (k + 1)! + 7]} = \frac{1}{10} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{(k^2 + 4 \times k + 1) \times 2^k}{(k+1)! \times (k+3)!} = \frac{1}{3} \quad k \in \mathbb{N}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{[13 \times (k+1)^2 \times (3 \times k! - 2) - 2 \times k] \times k!}{(13 \times k! - 8) \times [13 \times (k+1)! - 8] \times [13 \times (k+2)! - 8]} = \frac{1}{90}$$

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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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