

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W24

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

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$$\sum_{k=1}^{k=\infty} \frac{2 \times (k+2)^6 - (k+1)^5}{(k+2)! \times [(k+1) \times (k+2)]^5 \times 2^{k-6}} = 1 \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{9 \times k^2 + 45 \times k + 53}{(3 \times k + 7) \times (3 \times k + 10) \times (k + 2)! \times 3^k} = \frac{1}{20} \quad k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{(k^2 + 7 \times k - 1) \times 7^{k-1}}{(k+1)! \times (k+6)!} = \frac{1}{720} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{3 \times k^2 + 5 \times k + 3}{k \times (k + 1) \times (k + 1)! \times 3^k} = 1 \quad k \in \mathbb{N}$$

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{[19 \times (k+1)^2 \times (3 \times k! - 2) - 2 \times k] \times k!}{(19 \times k! - 12) \times [19 \times (k+1)! - 12] \times [19 \times (k+2)! - 12]} = \frac{1}{182}$$

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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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