

In memory of Justynke, my wife

FORMULAS

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

FORMULA No.

W17

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.

D171

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$$\sum_{k=1}^{k=\infty} \frac{25 \times k^2 + 275 \times k + 749}{(5 \times k + 26) \times (5 \times k + 31) \times (k + 5)! \times 5^{k-1}} = \frac{1}{744} \quad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{(5 \times k + 18) \times 7^{k-1}}{5^{k-1} \times (k + 5)!} = \frac{1}{24} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{3 \times (k+2)^6 - (k+1)^5}{(k+2)! \times [(k+1) \times (k+2)]^5 \times 3^k} = \frac{1}{64} \quad k \in N$$

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

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

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

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$k \in N$

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

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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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