

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W16

'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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FORMULAS

'The laws of nature are but the mathematical thoughts of God.'
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FORMULA No.

D161

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$$\sum_{k=1}^{k=\infty} \frac{1}{36 \times k^2 - 48 \times k + 7} = \frac{1}{6} \quad k \in \mathbb{N}$$

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FORMULA No.

D162

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$$\sum_{k=1}^{k=\infty} \frac{1}{(11 \times k + 6) \times (11 \times k + 17)} = \frac{1}{187} \quad k \in \mathbb{N}$$

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D163

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

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$$\sum_{k=1}^{k=\infty} \frac{1}{1024 \times k^2 + 64 \times k - 255} = \frac{1}{544} \quad k \in \mathbb{N}$$

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FORMULAS

FORMULA No.

D165

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{56 \times k^2 - 54 \times k - 1}{(7 \times k - 6) \times (7 \times k + 1) \times (49 \times k - 48) \times (49 \times k + 1)} = \frac{1}{343}$$

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FORMULA No.

D166

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(k+4)^{k+1} + (k+2)^{k-1} - 2 \times (k+3)^k}{[(k+4)^{k+1} - (k+3)^k] \times [(k+3)^k - (k+2)^{k-1}]} = \frac{1}{3}$$

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D167

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 80 \times k^3 + 132 \times k^2 + 88 \times k + 21}{(2 \times k^2 + 3 \times k + 1) \times (4 \times k^2 + 6 \times k + 1) \times (4 \times k^2 + 14 \times k + 11) \times (2 \times k)!} = \frac{1}{11}$$

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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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Photo Gordon Johnson z Pixabay
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