

In memory of Justynka, 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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FORMULAS

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FORMULA No.

D171

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$$\sum_{k=1}^{k=\infty} \frac{k+1}{(3 \times k^2 + 3 \times k + 1) \times (3 \times k^2 + 9 \times k + 7)} = \frac{1}{42} \quad k \in \mathbb{N}$$

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FORMULAS

FORMULA No.

D172

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$$\sum_{k=1}^{k=\infty} \frac{1}{49 \times k^2 - 63 \times k + 8} = \frac{1}{7} \quad k \in \mathbb{N}$$

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D173

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{k^2 - k - 1}{(2 \times k + 9) \times (2 \times k + 11) \times (11 \times k - 9) \times (11 \times k + 2)} = 0$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{256 \times k^2 + 96 \times k - 55} = \frac{1}{176} \quad k \in \mathbb{N}$$

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FORMULAS

FORMULA No.

D175

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{5^{k-1} \times [(5 \times k + 7)^{k+1} + 25 \times (5 \times k - 3)^{k-1} - 10 \times (5 \times k + 2)^k]}{[(5 \times k + 7)^{k+1} - 5 \times (5 \times k + 2)^k] \times [(5 \times k + 2)^k - 5 \times (5 \times k - 3)^{k-1}]} = \frac{1}{2}$$

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D176

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{40 \times k^2 - 38 \times k - 1}{(5 \times k - 4) \times (5 \times k + 1) \times (35 \times k - 34) \times (35 \times k + 1)} = \frac{1}{175}$$

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D177

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{3 \times k! \times (k^2 + k + 1) + 16 \times 5^k}{(3 \times k \times k! + 4 \times 5^k) \times [3 \times (k + 1) \times (k + 1)! + 4 \times 5^{k+1}]} = \frac{1}{23}$$

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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
Photo lange-adrian z Pixabay