

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W37

'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.

D371

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$$\sum_{k=1}^{k=\infty} \frac{k}{4 \times k^4 + 16 \times k^2 + 25} = \frac{1}{20} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{(k-1) \times 6^k}{(k+5)!} = \frac{1}{20} \quad k \in \mathbb{N}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{7 \times k! \times (k^2 + k + 1) + 2^{k+3}}{(7 \times k \times k! + 2^{k+3}) \times [7 \times (k + 1) \times (k + 1)! + 2^{k+4}]} = \frac{1}{23}$$

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$$\prod_{k=1}^{k=\infty} \frac{(k+4) \times (k+8)}{(k+6)^2} = \frac{15}{28} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{12 \times k^2 - 10 \times k - 1}{(10 \times k - 9) \times (10 \times k + 1) \times (4 \times k^2 - 1)} = \frac{1}{20} \quad k \in N$$

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$$\prod_{k=1}^{k=\infty} \left(1 - 4 \times \sin^2 \left(\frac{\pi}{24 \times 5^{k-1}} \right) + 3, 2 \times \sin^4 \left(\frac{\pi}{24 \times 5^{k-1}} \right) \right) \quad k \in \mathbb{N}$$
$$= \frac{3 \times (3 \times \sqrt{2} + \sqrt{6} + 2) \times \sqrt{8 + 2 \times \sqrt{6} - 4 \times \sqrt{2} - 4 \times \sqrt{3}}}{5 \times \pi}$$

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$$\sum_{k=1}^{k=\infty} \frac{k}{(4 \times k^2 - 1)^2} = \frac{1}{8} \quad k \in \mathbb{N}$$

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We invite you every
week and every day
to our website
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Thanks for:
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