

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W41

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

In memory of Justynka, my wife

FORMULAS

FORMULA No.

D411

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$$\sum_{k=1}^{k=\infty} \frac{k}{100 \times k^4 - 80 \times k^2 + 1} = \frac{1}{20} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \text{arc ctg} \left(2 \times k \times (2 \times k - \sqrt{3}) \right) = \frac{5 \times \pi}{12} \quad k \in \mathbb{N}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{15 \times k! \times (k^2 + k + 1) + 2^{k+1}}{(15 \times k \times k! + 2^{k+1}) \times [15 \times (k + 1) \times (k + 1)! + 2^{k+2}]} = \frac{1}{19} \quad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{k}{k^4 + 5 \times k^2 + 9} = \frac{1}{6} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{\sin\left(\frac{\pi}{12 \times k \times (k+1)}\right)}{\sin\left(\frac{(6 \times k + 5) \times \pi}{12 \times (k+1)}\right) \times \sin\left(\frac{(6 \times k - 1) \times \pi}{12 \times k}\right)} = 2 - \sqrt{3} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{8 \times k^2 - 6 \times k - 1}{(6 \times k - 5) \times (6 \times k + 1) \times (4 \times k^2 - 1)} = \frac{1}{12} \quad k \in N$$

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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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