

In memory of Justynka, my wife

FORMULAS

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



FORMULA No.

W51

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.

D511

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 160 \times k^3 + 595 \times k^2 + 609 \times k + 108}{(k+5) \times (k+6) \times (16 \times k^2 - 9) \times (16 \times k^2 - 1)} = \frac{\pi}{8}$$

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$$\sum_{k=1}^{k=\infty} \frac{\sin(2 \times k) \times \cos(5 \times k)}{k} = \frac{\pi - 2}{2} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 225} = \frac{\pi}{120} \quad k \in \mathbb{N}$$

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

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 96 \times k^3 + 195 \times k^2 - 283 \times k - 1232}{(k+3) \times (k+4) \times (16 \times k^2 - 121) \times (16 \times k^2 - 49)} = \frac{\pi}{72}$$

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$$\sum_{k=1}^{k=\infty} \frac{\sin(8 \times k) \times \cos(11 \times k)}{k} = \frac{3 \times \pi - 8}{2} \quad k \in \mathbb{N}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{25 \times k^4 + 155 \times k^3 + 544 \times k^2 + 1212 \times k + 1024}{(k+2)^2 \times (k+3)^2 \times (k+4)^2 \times (5 \times k + 3) \times (5 \times k + 8)} = \frac{6 \times \pi^2 - 59}{18}$$

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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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