

In memory of Justynka, my wife

FORMULAS

FORMULA No.

W52

'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.

D521

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$$\sum_{k=1}^{k=\infty} \frac{36 \times k^4 + 168 \times k^3 + 445 \times k^2 + 451 \times k + 100}{(3 \times k + 7) \times (3 \times k + 10) \times (4 \times k^2 - 1)^2} = \frac{\pi^2}{8} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{4 \times k^4 + 40 \times k^3 + 153 \times k^2 + 260 \times k + 163}{(k+1)^2 \times (k+2)^2 \times (2 \times k + 5) \times (2 \times k + 7)} = \frac{14 \times \pi^2 - 81}{84} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 64 \times k^3 + 163 \times k^2 + 159 \times k + 27}{(k+2) \times (k+3) \times (16 \times k^2 - 9) \times (16 \times k^2 - 1)} = \frac{\pi}{8} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{\sin(6 \times k) \times \cos(7 \times k)}{k} = \pi - 3 \quad k \in \mathbb{N}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{25 \times k^4 + 135 \times k^3 + 261 \times k^2 + 201 \times k + 47}{(k+1)^2 \times (k+2)^2 \times (5 \times k + 1) \times (5 \times k + 6)} = \frac{4 \times \pi^2 - 23}{24}$$

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$$\sum_{k=1}^{k=\infty} \frac{\sin(13 \times k)}{k} = \frac{5 \times \pi - 13}{2} \quad k \in \mathbb{N}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{25 \times k^4 + 135 \times k^3 + 336 \times k^2 + 506 \times k + 324}{(5 \times k + 1) \times (5 \times k + 6) \times (k + 2)^2 \times (k + 3)^2} = \frac{2 \times \pi^2 - 15}{12}$$

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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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