

In memory of Justynke, my wife

FORMULAS

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

FORMULA No.

W35

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.

D351

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{64 \times k^4 + 320 \times k^3 + 860 \times k^2 + 1384 \times k + 891}{(2 \times k + 1) \times (2 \times k + 3) \times (4 \times k + 5) \times (4 \times k + 7) \times (4 \times k + 9) \times (4 \times k + 11)} = \frac{105 \times \pi - 304}{840}$$

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$$\sum_{k=1}^{k=\infty} \frac{k^4 + 15 \times k^3 + 108 \times k^2 + 404 \times k + 576}{(k+2)^2 \times (k+3)^2 \times (k+4)^2 \times (k+5) \times (k+6)} = \frac{6 \times \pi^2 - 59}{18} \quad k \in N$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{k^6 + 18 \times k^5 + 121 \times k^4 + 460 \times k^3 + 1150 \times k^2 + 1500 \times k + 625}{k^2 \times (k + 1)^2 \times (k + 4)^2 \times (k + 5)^2} = \frac{\pi^2}{6}$$

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{(36 \times k^5 + 96 \times k^4 + 181 \times k^3 + 226 \times k^2 + 130 \times k + 24) \times (2 \times k)!}{(k+1)^2 \times (2 \times k + 1) \times (2 \times k + 3) \times (3 \times k - 2) \times (3 \times k + 1) \times k!^2 \times 2^{4 \times k + 3}} = \frac{\pi - 3}{3}$$

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{64 \times k^6 + 192 \times k^5 + 112 \times k^4 + 480 \times k^3 + 796 \times k^2 + 444 \times k + 81}{(2 \times k - 1)^2 \times (2 \times k + 1)^4 \times (2 \times k + 3)^2} = \frac{\pi^2}{8}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{256 \times k^4 + 896 \times k^3 + 2240 \times k^2 + 2152 \times k + 363}{(4 \times k + 7) \times (4 \times k + 11) \times (16 \times k^2 - 9) \times (16 \times k^2 - 1)} = \frac{\pi}{8}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 3249} = \frac{\pi}{456} \quad k \in \mathbb{N}$$

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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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