In memory of Justynka, my wife

FORMULAS

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

●●●●

FORMULA No.

W47

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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.

D471

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 1521} = -\frac{\pi}{312} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{9 \times k^4 + 39 \times k^3 + 55 \times k^2 + 23 \times k + 1}{(k+1)^2 \times (k+2)^2 \times (3 \times k - 1) \times (3 \times k + 2)} = \frac{4 \times \pi^2 - 21}{24}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 104 \times k^3 + 257 \times k^2 + 278 \times k + 109}{(k+1)^2 \times (k+2)^2 \times (4 \times k + 3) \times (4 \times k + 7)} = \frac{14 \times \pi^2 - 81}{84}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{64 \times k^4 + 192 \times k^3 + 476 \times k^2 + 448 \times k + 75}{(2 \times k + 3) \times (2 \times k + 5) \times (16 \times k^2 - 9) \times (16 \times k^2 - 1)} = \frac{\pi}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{sin(10 \times k) \times cos(13 \times k)}{k} = \frac{3 \times \pi - 10}{2}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{8 \times k^4 + 48 \times k^3 + 108 \times k^2 + 104 \times k + 35}{(k+1)^2 \times (k+2)^2 \times (2 \times k + 1) \times (2 \times k + 3)} = \frac{4 \times \pi^2 - 23}{12}$$

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$$\sum_{k=1}^{k=\infty} \frac{sin(23 \times k)}{k} = \frac{7 \times \pi - 23}{2} \qquad k \in N$$

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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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