In memory of Justynka, my wife

FORMULAS

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

●●●●

FORMULA No.

W49

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.

D491

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 9} = -\frac{\pi}{24} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D492

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{9 \times k^4 + 57 \times k^3 + 139 \times k^2 + 149 \times k + 58}{(k+1)^2 \times (k+2)^2 \times (3 \times k + 2) \times (3 \times k + 5)} = \frac{10 \times \pi^2 - 57}{60}$$

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$$\sum_{k=1}^{k=\infty} \frac{sin(4 \times k) \times cos(5 \times k)}{k} = \frac{\pi - 4}{2} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{9 \times k^4 + 51 \times k^3 + 109 \times k^2 + 99 \times k + 31}{(k+1)^2 \times (k+2)^2 \times (3 \times k + 1) \times (3 \times k + 4)} = \frac{8 \times \pi^2 - 45}{48}$$

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$$\sum_{k=1}^{k=\infty} \frac{4 \times k^4 + 9 \times k^2 + 5 \times k + 1}{k \times (k+1) \times (4 \times k^2 - 1)^2} = \frac{\pi^2}{8} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 160 \times k^3 + 515 \times k^2 - 271 \times k - 2772}{(k+5) \times (k+6) \times (16 \times k^2 - 121) \times (16 \times k^2 - 49)} = \frac{\pi}{72}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{18 \times k^4 + 66 \times k^3 + 53 \times k^2 - 23 \times k - 10}{(k+1)^2 \times (k+2)^2 \times (3 \times k - 2) \times (3 \times k + 1)} = \frac{4 \times \pi^2 - 21}{12}$$

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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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