In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W10

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.

D101

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{4 \times k^4 + 24 \times k^3 + 69 \times k^2 + 116 \times k + 81}{(k+2)^2 \times (k+3)^2 \times (2 \times k + 1) \times (2 \times k + 3)} = \frac{2 \times \pi^2 - 15}{12}$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D102

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{36 \times k^4 + 48 \times k^3 + 145 \times k^2 + 121 \times k + 25}{(3 \times k + 2) \times (3 \times k + 5) \times (4 \times k^2 - 1)^2} = \frac{\pi^2}{8}$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D103

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{25 \times k^4 + 180 \times k^3 + 609 \times k^2 + 1242 \times k + 1024}{(k+2) \times (k+3)^2 \times (k+4)^2 \times (5 \times k + 3) \times (5 \times k + 8)} = \frac{61 - 6 \times \pi^2}{36}$$

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FORMULA No.

D104

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 4489} = -\frac{\pi}{536} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D105

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{144 \times k^4 + 96 \times k^3 - 293 \times k^2 - 899 \times k - 1232}{(3 \times k + 1) \times (3 \times k + 4) \times (16 \times k^2 - 121) \times (16 \times k^2 - 49)} = \frac{\pi}{72}$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D106

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 88 \times k^3 + 265 \times k^2 + 536 \times k + 400}{(k+2)^2 \times (k+3)^2 \times (k+4)^2 \times (4 \times k + 1) \times (4 \times k + 5)} = \frac{6 \times \pi^2 - 59}{18}$$

NEW MATHEMATICAL FORMULA DAILY

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Euclid

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FORMULA No.

D107

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$$\sum_{k=1}^{k=\infty} \frac{1}{(25 - 16 \times k^2)} = \frac{5 \times \pi - 4}{200} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

We invite you every week and every day to our website www.and-just-math.com

Thanks for:
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