In memory of Justynka, my wife

FORMULAS

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

●●●●

FORMULA No.

W21

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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.

D211

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^5 + 88 \times k^4 + 169 \times k^3 + 188 \times k^2 + 208 \times k + 64}{(4 \times k - 3) \times (4 \times k + 1) \times (k + 2)^3 \times (k + 3)^3 \times (k + 4)^3} = \frac{533 - 54 \times \pi^2}{54}$$

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D212

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{25 \times k^4 + 135 \times k^3 + 396 \times k^2 + 788 \times k + 576}{(k+2)^2 \times (k+3)^2 \times (k+4)^2 \times (5 \times k + 1) \times (5 \times k + 6)} = \frac{6 \times \pi^2 - 59}{18}$$

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D213

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[(\pi^2-6)\times k^2+4\times(2\times\pi^2-9)\times k+16\times\pi^2-54]\times 6^{k-1}}{(k+3)^2\times(k+4)^2\times\pi^{2\times k}}=\frac{1}{16}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 361} = -\frac{\pi}{152} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D215

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{144 \times k^4 - 96 \times k^3 - 485 \times k^2 - 167 \times k - 308}{(3 \times k - 1) \times (3 \times k + 2) \times (16 \times k^2 - 121) \times (16 \times k^2 - 49)} = \frac{\pi}{72}$$

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FORMULA No.

D216

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{400 \times k^4 - 80 \times k^3 + 359 \times k^2 + 293 \times k + 60}{(5 \times k - 3) \times (5 \times k + 2) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{4 - \pi}{8}$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D217

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{4 \times k^4 + 32 \times k^3 + 125 \times k^2 + 264 \times k + 225}{(k+2)^2 \times (k+3)^2 \times (2 \times k + 3) \times (2 \times k + 5)} = \frac{2 \times \pi^2 - 15}{12}$$

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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