In memory of Justynka, my wife

FORMULAS

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

●●●●

FORMULA No.

W23

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.

D231

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{25 \times k^5 + 135 \times k^4 + 241 \times k^3 + 212 \times k^2 + 208 \times k + 64}{(5 \times k - 4) \times (5 \times k + 1) \times (k + 2)^3 \times (k + 3)^3 \times (k + 4)^3} = \frac{533 - 54 \times \pi^2}{54}$$

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D232

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 136 \times k^3 + 649 \times k^2 + 1784 \times k + 1936}{(k+2)^2 \times (k+3)^2 \times (k+4)^2 \times (4 \times k + 7) \times (4 \times k + 11)} = \frac{6 \times \pi^2 - 59}{18}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{4 \times k^6 + 36 \times k^5 + 109 \times k^4 + 246 \times k^3 + 481 \times k^2 + 402 \times k + 81}{(k+2)^2 \times (k+3)^2 \times (2 \times k - 1)^2 \times (2 \times k + 1)^2} = \frac{\pi^2}{8}$$

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FORMULA No.

D234

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{576 \times k^4 - 960 \times k^3 + 796 \times k^2 + 32 \times k + 15}{(4 \times k - 3) \times (6 \times k - 5) \times (6 \times k + 1) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{\pi - 2}{16}$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D235

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 3969} = -\frac{\pi}{504} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 320 \times k^3 + 1955 \times k^2 + 1999 \times k + 363}{(k+10) \times (k+11) \times (16 \times k^2 - 9) \times (16 \times k^2 - 1)} = \frac{\pi}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 80 \times k^3 + 239 \times k^2 + 331 \times k + 135}{(k+2) \times (k+3) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{4 - \pi}{8}$$

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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