In memory of Justynka, my wife

FORMULAS

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

●●●●

FORMULA No.

W41

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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.

D411

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{400 \times k^4 + 240 \times k^3 + 871 \times k^2 + 817 \times k + 240}{(5 \times k - 1) \times (5 \times k + 4) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{4 - \pi}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^4 + 11 \times k^3 + 47 \times k^2 + 89 \times k + 61}{(k+1)^2 \times (k+2)^2 \times (k+3) \times (k+4)} = \frac{8 \times \pi^2 - 45}{48}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{256 \times k^4 - 384 \times k^3 + 384 \times k^2 + 56 \times k + 15}{(4 \times k - 3)^2 \times (4 \times k + 1) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{\pi - 2}{16}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3 \times k^4 + 21 \times k^3 + 57 \times k^2 + 69 \times k + 31}{(k+1)^3 \times (k+2)^3} = \frac{4 \times \pi^2 - 23}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{256 \times k^4 + 384 \times k^3 - 192 \times k^2 - 2296 \times k - 3773}{(4 \times k + 3) \times (4 \times k + 7) \times (16 \times k^2 - 121) \times (16 \times k^2 - 49)} = \frac{\pi}{72}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^4 + 17 \times k^3 + 101 \times k^2 + 239 \times k + 190}{(k+1)^2 \times (k+2)^2 \times (k+6) \times (k+7)} = \frac{14 \times \pi^2 - 81}{84}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 2209} = -\frac{\pi}{376} \qquad k \in N$$

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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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