In memory of Justynka, my wife

FORMULAS

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

●●●●

FORMULA No.

W43

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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.

D431

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{7 \times k^4 + 35 \times k^3 + 59 \times k^2 + 35 \times k + 4}{k \times (k+1)^3 \times (k+2)^2} = \frac{14 \times \pi^2 - 81}{12}$$

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$$\sum_{k=1}^{k=\infty} \frac{k^4 + 7 \times k^3 + 28 \times k^2 + 68 \times k + 64}{(k+1) \times (k+2)^3 \times (k+3)^2 \times (k+4)^2} = \frac{6 \times \pi^2 - 59}{18}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{8 \times k^4 + 32 \times k^3 + 36 \times k^2 + 4 \times k - 3}{(k+1)^2 \times (k+2)^2 \times (4 \times k^2 - 1)} = \frac{4 \times \pi^2 - 21}{12}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{1600 \times k^4 - 2880 \times k^3 + 2076 \times k^2 - 88 \times k + 15}{(4 \times k - 3) \times (10 \times k - 9) \times (10 \times k + 1) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{\pi - 2}{16}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{64 \times k^6 - 64 \times k^5 - 16 \times k^4 + 96 \times k^3 - 4 \times k^2 + 12 \times k + 1}{(2 \times k - 1)^4 \times (2 \times k + 1)^4} = \frac{\pi^2}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 288 \times k^3 + 1619 \times k^2 + 1657 \times k + 300}{(k+9) \times (k+10) \times (16 \times k^2 - 9) \times (16 \times k^2 - 1)} = \frac{\pi}{8}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{16 \times k^2 - 9} = \frac{3 \times \pi + 4}{72} \qquad k \in N$$

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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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