In memory of Justynka, my wife

FORMULAS

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

●●●●

FORMULA No.

W27

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.

D271

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 64 \times k^3 + 131 \times k^2 + 179 \times k + 99}{k \times (k+1) \times (4 \times k + 5) \times (4 \times k + 7) \times (4 \times k + 9) \times (4 \times k + 11)} = \frac{105 \times \pi - 304}{840}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 121} = -\frac{\pi}{88} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 104 \times k^3 + 301 \times k^2 + 544 \times k + 400}{(k+2) \times (k+3)^2 \times (k+4)^2 \times (4 \times k + 1) \times (4 \times k + 5)} = \frac{61 - 6 \times \pi^2}{36}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{64 \times k^6 + 448 \times k^5 + 1008 \times k^4 + 2144 \times k^3 + 4156 \times k^2 + 3180 \times k + 625}{(2 \times k - 1)^2 \times (2 \times k + 1)^2 \times (2 \times k + 3)^2 \times (2 \times k + 5)^2} = \frac{\pi^2}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{9 \times k^4 + 57 \times k^3 + 205 \times k^2 + 464 \times k + 400}{(k+2)^2 \times (k+3)^2 \times (k+4)^2 \times (3 \times k + 2) \times (3 \times k + 5)} = \frac{6 \times \pi^2 - 59}{18}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{16 \times k^2 - 225} = \frac{15 \times \pi + 4}{1800} \qquad k \in N$$

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D277

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{64 \times k^4 + 320 \times k^3 + 860 \times k^2 + 856 \times k + 147}{(2 \times k + 5) \times (2 \times k + 7) \times (16 \times k^2 - 9) \times (16 \times k^2 - 1)} = \frac{\pi}{8}$$

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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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