In memory of Justynka, my wife

FORMULAS

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

●●●●

FORMULA No.

W46

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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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{64 \times k^4 + 208 \times k^3 + 81 \times k^2 - 178 \times k - 17}{(k+1)^2 \times (k+2)^2 \times (8 \times k - 7) \times (8 \times k + 1)} = \frac{2 \times \pi^2 - 9}{12}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{4 \times k^4 + 28 \times k^3 + 91 \times k^2 + 180 \times k + 144}{(k+2) \times (k+3)^2 \times (k+4)^2 \times (2 \times k + 1) \times (2 \times k + 3)} = \frac{61 - 6 \times \pi^2}{36}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{\left[\left(11 \times k^2 + 26 \times k + 15\right) \times k! + 6 \times k^3 + 12 \times k^2 + 3 \times k - 3\right] \times k! \times 2^{k+2}}{(2 \times k + 3)!} = 7 \times (\pi - 2)$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 104 \times k^3 + 329 \times k^2 + 594 \times k + 441}{(4 \times k + 3) \times (4 \times k + 7) \times (k + 2)^2 \times (k + 3)^2} = \frac{2 \times \pi^2 - 15}{12}$$

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$$\sum_{k=1}^{k=\infty} \frac{sin(3 \times k) \times cos(4 \times k)}{k} = \frac{\pi - 3}{2} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{144 \times k^4 - 192 \times k^3 + 235 \times k^2 + 59 \times k + 15}{(3 \times k - 2) \times (3 \times k + 1) \times (4 \times k - 3) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{\pi - 2}{16}$$

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$$\sum_{k=1}^{k=\infty} \frac{sin(7 \times k)}{k} = \frac{3 \times \pi - 7}{2} \qquad k \in N$$

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Thanks for:
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