FORMULAS

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

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

In memory of Justynka, my wife

FORMULAS

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FORMULA No.

D321

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^5 + 104 \times k^4 + 321 \times k^3 + 764 \times k^2 + 1168 \times k + 576}{(4 \times k - 1) \times (4 \times k + 3) \times (k + 2)^3 \times (k + 3)^3 \times (k + 4)^3} = \frac{533 - 54 \times \pi^2}{54}$$

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D322

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{256 \times k^4 + 384 \times k^3 + 1088 \times k^2 + 904 \times k + 147}{(4 \times k + 3) \times (4 \times k + 7) \times (16 \times k^2 - 9) \times (16 \times k^2 - 1)} = \frac{\pi}{8}$$

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$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 112 \times k^3 + 344 \times k^2 + 356 \times k + 81}{(2 \times k + 7) \times (2 \times k + 9) \times (4 \times k^2 - 1)^2} = \frac{\pi^2}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{144 \times k^4 + 240 \times k^3 + 631 \times k^2 + 689 \times k + 240}{(3 \times k + 1) \times (3 \times k + 4) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{4 - \pi}{8}$$

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$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 56 \times k^3 + 41 \times k^2 - 22 \times k - 5}{(k+1)^2 \times (k+2)^2 \times (4 \times k - 3) \times (4 \times k + 1)} = \frac{2 \times \pi^2 - 9}{12}$$

$$k \in N$$

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FORMULA No.

D326

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{9 \times k^4 + 60 \times k^3 + 181 \times k^2 + 338 \times k + 256}{(k+2) \times (k+3)^2 \times (k+4)^2 \times (3 \times k + 1) \times (3 \times k + 4)} = \frac{61 - 6 \times \pi^2}{36}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 169} = \frac{\pi}{104} \qquad k \in N$$

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week and every day
to our website
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Thanks for:
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