In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W03

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.

D031

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{64 \times k^4 + 448 \times k^3 + 1372 \times k^2 + 1392 \times k + 243}{(2 \times k + 7) \times (2 \times k + 9) \times (16 \times k^2 - 9) \times (16 \times k^2 - 1)} = \frac{\pi}{8}$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D032

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$$\sum_{k=1}^{k=\infty} \frac{48 \times k^2 - 48 \times k + 13}{(4 \times k - 3)^3 \times (4 \times k - 1)^3} = \frac{\pi^3}{64} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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D033

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(8 \times k^5 + 108 \times k^4 + 514 \times k^3 + 1037 \times k^2 + 923 \times k + 300) \times (2 \times k)!}{(k+1)^2 \times (2 \times k + 1) \times (2 \times k + 3)^2 \times (2 \times k + 5) \times k!^2 \times 2^{4 \times k + 2}} = \frac{\pi - 3}{3}$$

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FORMULA No.

D034

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{64 \times k^4 - 64 \times k^3 + 124 \times k^2 + 56 \times k + 15}{(4 \times k - 3) \times (4 \times k^2 - 1) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{\pi - 2}{16}$$

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FORMULA No.

D035

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^4 + 9 \times k^3 + 39 \times k^2 + 89 \times k + 81}{(k+2)^3 \times (k+3)^3} = \frac{2 \times \pi^2 - 15}{12}$$

NEW MATHEMATICAL FORMULA DAILY

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Euclid

FORMULA No.

D036

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 2809} = \frac{\pi}{424} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULAS

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Euclid

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FORMULA No.

D037

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^2 + 32 \times k + 15}{(4 \times k - 3) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{\pi - 2}{16}$$

NEW MATHEMATICAL FORMULA DAILY

We invite you every week and every day to our website www.and-just-math.com

Thanks for:
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