FORMULAS

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

FORMULA No.

W20

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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Euclid

FORMULA No.

D201

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$$\sum_{k=1}^{k=\infty} 3^{k-1} \times sin^3\left(\frac{\pi}{4 \times 3^k}\right) = \frac{\pi - 2 \times \sqrt{2}}{16} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULAS

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●●

FORMULA No.

D202

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$$\sum_{k=1}^{k=\infty} \frac{1}{64 \times k^2 + 48 \times k - 7} = \frac{1}{56} \qquad k \in N$$

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FORMULAS

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k! \times (k^2 + k + 1) + 16 \times 5^k}{(k \times k! + 4 \times 5^k) \times [(k+1) \times (k+1)! + 4 \times 5^{k+1}]} = \frac{1}{21}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{100 \times k^2 - 120 \times k + 11} = -\frac{1}{10} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{7^{k-1} \times \left[(7 \times k + 10)^{k+1} + 49 \times (7 \times k - 4)^{k-1} - 14 \times (7 \times k + 3)^k\right]}{\left[(7 \times k + 10)^{k+1} - 7 \times (7 \times k + 3)^k\right] \times \left[(7 \times k + 3)^k - 7 \times (7 \times k - 4)^{k-1}\right]} = \frac{1}{3}$$

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FORMULAS

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3 \times k! \times (k^2 + k + 1) + 2^k}{(3 \times k \times k! + 2^k) \times [3 \times (k+1) \times (k+1)! + 2^{k+1}]} = \frac{1}{5}$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D207

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$$\sum_{k=1}^{k=\infty} \frac{24 \times k^2 - 22 \times k - 1}{k \times (k+1) \times (23 \times k - 22) \times (23 \times k + 1)} = \frac{1}{23} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

We invite you every
week and every day
to our website
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