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

FORMULA No.

FORMULAS

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

D141

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$$\sum_{k=1}^{k=\infty} sin\left(\frac{5 \times \pi}{11^k}\right) \times sin\left(\frac{25 \times \pi}{6 \times 11^k}\right) = \frac{2 + \sqrt{3}}{4} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{16 \times k^2 - 24 \times k + 5} = -\frac{1}{4} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{(2 \times k + 15) \times (2 \times k + 17)} = \frac{1}{34} \qquad k \in N$$

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FORMULA No.

D144

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$$\sum_{k=1}^{k=\infty} \frac{1}{256 \times k^2 + 32 \times k - 63} = \frac{1}{144} \quad k \in N$$

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FORMULAS

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3^{k-1} \times \left[(3 \times k + 10)^{k+1} + 9 \times (3 \times k + 4)^{k-1} - 6 \times (3 \times k + 7)^{k}\right]}{\left[(3 \times k + 10)^{k+1} - 3 \times (3 \times k + 7)^{k}\right] \times \left[(3 \times k + 7)^{k} - 3 \times (3 \times k + 4)^{k-1}\right]} = \frac{1}{7}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{30 \times k^2 - 28 \times k - 1}{k \times (k+1) \times (29 \times k - 28) \times (29 \times k + 1)} = \frac{1}{29}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{256 \times k^2 + 160 \times k - 39} = \frac{1}{208} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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