In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W15

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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FORMULAS

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FORMULA No.

D151

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$$\sum_{k=1}^{k=\infty} \frac{1}{25 \times k^2 - 35 \times k + 6} = -\frac{1}{5} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D152

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^2 - k - 1}{(3 \times k + 4) \times (3 \times k + 7) \times (7 \times k - 4) \times (7 \times k + 3)} = 0$$

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$$\sum_{k=1}^{k=\infty} sin\left(\frac{\pi}{3^{2\times k}}\right) \times sin\left(\frac{4\times\pi}{5\times 3^{2\times k}}\right) = \frac{3-\sqrt{5}}{8} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{(11 \times k + 2) \times (11 \times k + 13)} = \frac{1}{143} \qquad k \in N$$

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FORMULA No.

D155

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$$\sum_{k=1}^{k=\infty} \frac{1}{1024 \times k^2 - 64 \times k - 255} = \frac{1}{480} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D156

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{66 \times k^2 - 64 \times k - 1}{(11 \times k - 10) \times (11 \times k + 1) \times (55 \times k - 54) \times (55 \times k + 1)} = \frac{1}{605}$$

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FORMULA No.

D157

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2^{k-1} \times \left[(2 \times k + 7)^{k+1} + 4 \times (2 \times k + 3)^{k-1} - 4 \times (2 \times k + 5)^{k}\right]}{\left[(2 \times k + 7)^{k+1} - 2 \times (2 \times k + 5)^{k}\right] \times \left[(2 \times k + 5)^{k} - 2 \times (2 \times k + 3)^{k-1}\right]} = \frac{1}{5}$$

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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