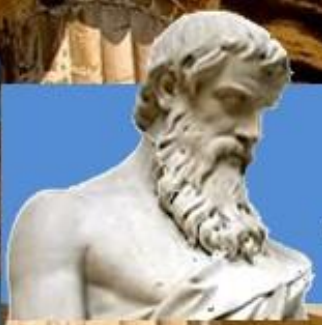
In memory of Justynka, my wife



FORMULAS

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

FORMULA No.

W11

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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.

D111

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{1}{\left(5-\sqrt{21}\right) \times k^2 + \left(\sqrt{21}-1\right) \times k + 3 + \sqrt{21}} = \frac{1}{2}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^2 - k - 1}{(3 \times k + 8) \times (3 \times k + 11) \times (11 \times k - 8) \times (11 \times k + 3)} = 0$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{9 \times k^2 - 21 \times k + 10} = -\frac{1}{6} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{7^{k-1} \times \left[(7 \times k + 9)^{k+1} + 49 \times (7 \times k - 5)^{k-1} - 14 \times (7 \times k + 2)^{k}\right]}{\left[(7 \times k + 9)^{k+1} - 7 \times (7 \times k + 2)^{k}\right] \times \left[(7 \times k + 2)^{k} - 7 \times (7 \times k - 5)^{k-1}\right]} = \frac{1}{2}$$

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$$\sum_{k=1}^{k=\infty} \frac{(-1)^k \times (7 \times k + 1)}{4 \times (7 \times k + 1)^2 - 49} = -\frac{1}{36} \qquad k \in N$$

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D117

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{54 \times k^2 - 52 \times k - 1}{(3 \times k - 2) \times (3 \times k + 1) \times (51 \times k - 16) \times (51 \times k + 1)} = \frac{1}{153}$$

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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