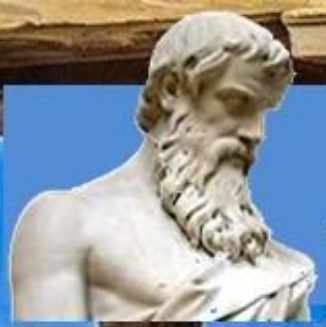

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W33

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We are not mathematicians, but we love mathematics and create formulas ourselves.

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Hugo Steinhaus

1 WEEK = 7 DAYS = 7 FORMULAS

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FORMULA No.

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$$\sum_{k=1}^{k=\infty} \frac{1}{16 \times k^2 - 8 \times k - 3} = \frac{1}{4} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{16 \times k^2 - 8 \times \sqrt{2+\sqrt{3}} \times k - 2 + \sqrt{3}} = \frac{8 + 5 \times \sqrt{2} + 4 \times \sqrt{3} + 3 \times \sqrt{6}}{8} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{19 \times k! \times \left(k^2 + k + 1\right) + 2^{k+1}}{(19 \times k \times k! + 2^{k+1}) \times [19 \times (k+1) \times (k+1)! + 2^{k+2}]} = \frac{1}{23}$$

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$$\prod_{k=1}^{k=\infty} \frac{(k+6)\times(k+10)}{(k+8)^2} = \frac{28}{45} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{6 \times k^2 - 4 \times k - 1}{k \times (k+1) \times (5 \times k - 4) \times (5 \times k + 1)} = \frac{1}{5}$$

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$$k \in N$$

$$\prod_{k=1}^{k=\infty}\left(1-4\times sin^2\left(\frac{\pi}{5^{k+1}}\right)+3,2\times sin^4\left(\frac{\pi}{5^{k+1}}\right)\right)=\frac{5\times\sqrt{10-2\times\sqrt{5}}}{4\times\pi}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k}{4 \times k^4 + 1} = \frac{1}{4}$$

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Thanks for:
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