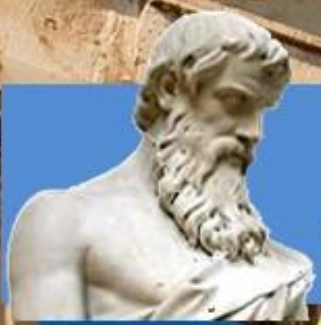

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W44

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Hugo Steinhaus

1 WEEK = 7 DAYS = 7 FORMULAS

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FORMULA No.

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$$\sum_{k=1}^{k=\infty} sin\left(\frac{3 \times \pi}{8 \times (k^2 + 5 \times k + 6)}\right) \quad k \in N$$

$$\times cos\left(\frac{3 \times (2 \times k^2 + 11 \times k + 15) \times \pi}{8 \times (k+3) \times (k^2 + 5 \times k + 6)}\right) = \frac{\sqrt{2}}{4}$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\ ctg\left(2 \times k \times \left(\sqrt{2} \times k + 1\right)\right) = \frac{\pi}{8}$$

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$$\sum_{k=1}^{k=\infty} \frac{(k-2)\times 6^{k}}{(k+4)!} = \frac{1}{4} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{8 \times k^2 - 6 \times k - 1}{k \times (k+1) \times (7 \times k - 6) \times (7 \times k + 1)} = \frac{1}{7}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} sin\left(\frac{5 \times \pi}{24 \times k \times (k+1)}\right) \times \left[sin\left(\frac{5 \times (2 \times k^2 - 1) \times \pi}{24 \times k \times (k+1)}\right) + (2 - \sqrt{3}) \times cos\left(\frac{5 \times (2 \times k^2 - 1) \times \pi}{24 \times k \times (k+1)}\right)\right]$$
$$= \frac{1}{2}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{sin\left(\frac{3 \times \pi}{10 \times k \times (k+1)}\right)}{sin\left(\frac{(5 \times k + 2) \times \pi}{10 \times (k+1)}\right) \times sin\left(\frac{(5 \times k - 3) \times \pi}{10 \times k}\right)} = \frac{\sqrt{25 + 10 \times \sqrt{5}}}{5}$$

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

Thanks for:
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