FORMULAS

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

FORMULA No.

W16

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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

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$$k \in N$$

$$\prod_{k=1}^{k=\infty} cos\left(\frac{\pi}{5 \times 2^{2 \times k}}\right) \times cos\left(\frac{\pi}{5 \times 2^{2 \times k+1}}\right) = \frac{5 \times \left(\sqrt{5}-1\right)}{2 \times \pi}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(-1)^{2\times k-1} \times (10 \times k - 1) + 2^{2\times k} \times (2^{2\times k} - 2 \times k - 1)}{k \times (2 \times k - 1) \times 2^{4\times k+1}} = 0$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(-1)^{2\times k-1} \times (6 \times k - 1) + 2^{2\times k+1}}{k \times (2 \times k - 1) \times 2^{2\times k+1}} = ln2$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(-1)^{2\times k-1} \times (6 \times k - 1) + 2^{2\times k}}{k \times (2 \times k - 1) \times 2^{2\times k+1}} = 0$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{e \times ln(k+1) - ln(k+2)}{e^k} = ln2$$

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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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