FORMULAS

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

FORMULA No.
W17

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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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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3^{2\times k-1} \times (2 \times k + 3) + 2^{4\times k+1}}{k \times (2 \times k - 1) \times 2^{4\times k+1}} = ln7$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{\left[3^{2\times k-1} \times (2 \times k + 3) + 2^{4\times k+1}\right] \times 7^{2\times k} + (3 \times k + 2) \times 2^{8\times k-1}}{k \times (2 \times k - 1) \times 2^{4\times k+1} \times 7^{2\times k}} = ln11$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{7 \times (2 \times k + 3) \times 21^{2 \times k - 1} + 2 \times 28^{2 \times k} + 8 \times (k + 3) \times 24^{2 \times k - 1}}{k \times (2 \times k - 1) \times 2^{4 \times k + 1} \times 7^{2 \times k}} = ln13$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{e \times ln(2 \times k + 1) - ln(2 \times k + 3)}{e^k} = ln3$$

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

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