FORMULAS

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

FORMULA No.

W32

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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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$$k \in N$$

$$\sum_{k=1}^{k=\infty} tg\left(\frac{\pi}{2 \times 3^{k+1}}\right) \times \left[1 + tg\left(\frac{\pi}{4 \times 3^{k}}\right) \times tg\left(\frac{\pi}{4 \times 3^{k+1}}\right)\right] = 2 - \sqrt{3}$$

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

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$$\sum_{k=1}^{k=\infty} arctg \frac{3^{k-1} \times 2 \times (2-\sqrt{3})}{(2-\sqrt{3})^2 + 3^{2 \times k-1}} = \frac{\pi}{12} \qquad k \in N$$

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$$k \in N$$

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

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times cos\left(\frac{3 \times \pi}{5 \times 2^{k+2}}\right) \times cos\left(\frac{\pi}{5 \times 2^{k+2}}\right) \qquad k \in N$$

$$= \frac{\sqrt{10 + 2 \times \sqrt{5}}}{8} \pm \frac{1}{2}$$

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$$\sum_{k=1}^{k=\infty} arctg \frac{5^{k-1} \times 4 \times (\sqrt{2}-1)}{(\sqrt{2}-1)^2 + 5^{2\times k-1}} = \frac{\pi}{8} \qquad k \in N$$

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

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