FORMULAS

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

FORMULA No.

W38

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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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$$\sum_{k=1}^{k=\infty} \frac{1}{2^k} \times tg\left(\frac{3 \times \pi}{2^{k+2}}\right) = \frac{4 + 3 \times \pi}{3 \times \pi} \qquad k \in N$$

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$$k \in N$$

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

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$$k \in N$$

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

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$$\prod_{k=1}^{k=\infty} cos\,\frac{3\times\pi}{5\times 2^{k+1}} = \frac{5\times(\sqrt{5}+1)}{6\times\pi} \qquad k\in N$$

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$$\sum_{k=1}^{k=\infty} arctg \frac{5^k \times 4 \times \sqrt{25 - 10 \times \sqrt{5}}}{25 - 10 \times \sqrt{5} + 5^{2 \times k+1}} = \frac{\pi}{10} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times sin\left(\frac{9 \times \pi}{5 \times 2^{k+2}}\right) \times cos\left(\frac{3 \times \pi}{5 \times 2^{k+2}}\right) = \frac{\sqrt{5}+1}{8}$$

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$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times cos\left(\frac{9 \times \pi}{5 \times 2^{k+2}}\right) \times cos\left(\frac{3 \times \pi}{5 \times 2^{k+2}}\right) \qquad k \in N$$

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

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

Thanks for:
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