FORMULAS

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

FORMULA No.

W36

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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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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arctg \frac{2^{k-1} \times (\sqrt{2}+1)}{(\sqrt{2}+1)^2 + 2^{2 \times k-1}} = \frac{3 \times \pi}{8}$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} sin\left(\frac{\pi}{5 \times 2^{k+1}}\right) \times cos\left(\frac{3 \times \pi}{5 \times 2^{k+1}}\right) = \frac{\sqrt{10 - 2 \times \sqrt{5}}}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arcsin\left(\frac{\left(\sqrt{6}+\sqrt{2}\right)\times\left(\sqrt{2^{2\times k+2}\ -2-\sqrt{3}}-\sqrt{2^{2\times k}\ -2-\sqrt{3}}\right)}{2^{2\times k+2}}\right) = \frac{5\times\pi}{12}$$

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$$k \in N$$

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

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arctg \frac{2^{k-1} \times (2+\sqrt{3})}{(2+\sqrt{3})^2 + 2^{2 \times k-1}} = \frac{5 \times \pi}{12}$$

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

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