FORMULAS

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

FORMULA No.

W34

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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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$$k \in N$$

$$\sum_{k=1}^{k=\infty} tg\left(\frac{\pi}{5 \times 2^{k+1}}\right) \times \left[1 + tg\left(\frac{\pi}{5 \times 2^{k}}\right) \times tg\left(\frac{\pi}{5 \times 2^{k+1}}\right)\right]$$

$$= \frac{\sqrt{25 - 10 \times \sqrt{5}}}{5}$$

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} arctg\,\frac{6\times 7^{k-1}}{1+7^{2\times k-1}} = \frac{\pi}{4} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times \frac{sin\left(\frac{3 \times \pi}{2^{k+2}}\right) + sin\left(\frac{3 \times \pi}{2^{k+3}}\right)}{tg\left(\frac{9 \times \pi}{2^{k+4}}\right)} = \frac{\sqrt{2-\sqrt{2}}}{2} \pm 1$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arcsin\left(\frac{\left(\sqrt{5}-1\right)\times\left(\sqrt{2^{2\times k+4}-6+2\times\sqrt{5}}-\sqrt{2^{2\times k+2}-6+2\times\sqrt{5}}\right)}{2^{2\times k+3}}\right) = \frac{\pi}{10}$$

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$$k \in N$$

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

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Thanks for:
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