FORMULAS

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

FORMULA No.

W01

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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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D011

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$$k \in N$$

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

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

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

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{1}{2^k} \times tg\left(\frac{5 \times \pi}{2^{k+2}}\right) = \frac{4 - 5 \times \pi}{5 \times \pi} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} 3^{k-1} \times sin^3\left(\frac{\pi}{2 \times 3^k}\right) = \frac{\pi - 2}{8} \qquad k \in N$$

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$$k \in N$$

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

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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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