FORMULAS

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

FORMULA No.

W40

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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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D401

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

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

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arctg \frac{2^{k-1} \times \sqrt{25 + 10 \times \sqrt{5}}}{5 + 2 \times \sqrt{5} + 5 \times 2^{2 \times k-1}} = \frac{3 \times \pi}{10}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times \frac{sin\left(\frac{\pi}{12 \times 5^{k-2}}\right) + sin\left(\frac{\pi}{12 \times 5^{k-1}}\right)}{tg\left(\frac{\pi}{4 \times 5^{k-1}}\right)} = \frac{\sqrt{6} - \sqrt{2}}{4} \pm 1$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} tg\left(\frac{8 \times \pi}{5^{k+1}}\right) \times \left[1 + tg\left(\frac{2 \times \pi}{5^{k}}\right) \times tg\left(\frac{2 \times \pi}{5^{k+1}}\right)\right] = \sqrt{5 + 2 \times \sqrt{5}}$$

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$$k \in N$$

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

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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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