

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

FORMULA No.

W42

www.and-just-math.com

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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FORMULA No.

D421

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$$k \in N$$

$$\sum_{k=\infty}^{k=\infty} (-1)^{k-1} \times \cos\left(\frac{6\times\pi}{5^{k+1}}\right) \times \cos\left(\frac{4\times\pi}{5^{k+1}}\right) = \frac{\sqrt{5}-1}{8} \pm \frac{1}{2}$$



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D422

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$$k \in N$$

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



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$$k \in N$$

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



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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{1}{2^k} \times tg\left(\frac{\pi}{5 \times 2^{k-2}}\right) = \frac{25 + 4 \times \sqrt{25 + 10 \times \sqrt{5}} \times \pi}{20 \times \pi}$$



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$$k \in N$$

$$\sum_{k=\infty}^{k=\infty} sin\left(\frac{3\times\pi}{5\times2^k}\right)\times sin\left(\frac{-\pi}{5\times2^k}\right) = \frac{\sqrt{5}-5}{8}$$



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$$k \in N$$

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



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$$k \in N$$

$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times \frac{\sin\left(\frac{\pi}{4\times3^k}\right) + \sin\left(\frac{\pi}{4\times3^{k+1}}\right)}{tg\left(\frac{\pi}{2\times3^{k+1}}\right)} = \frac{\sqrt{6}+\sqrt{2}}{4} \pm 1$$

