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

'No other science boosts the faith in the strength of the human spirit like mathematics.'
Hugo Steinhaus

1 WEEK = 7 DAYS =
7 FORMULAS

NEW MATHEMATICAL FORMULA DAILY

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

$$k \in N$$

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

$$= \frac{\sqrt{6} - \sqrt{2}}{8} \pm \frac{1}{2}$$

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

$$= \sqrt{2} - 1$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} sin\left(\frac{5 \times \pi}{2^{2 \times k+3}}\right) \times cos\left(\frac{25 \times \pi}{3 \times 2^{2 \times k+3}}\right) = \frac{\sqrt{6} + \sqrt{2}}{8}$$

FORMULAS

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} sin\left(\frac{\pi}{4 \times 3^k}\right) \times sin\left(\frac{-\pi}{8 \times 3^k}\right) = \frac{\sqrt{2 + \sqrt{2}} - 2}{4}$$

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$$k \in N$$

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

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FORMULAS

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

$$= \sqrt{2} - 1$$

NEW MATHEMATICAL FORMULA DAILY

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