FORMULAS

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

FORMULA No.

W24

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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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$$k \in N$$

$$\sum_{k=1}^{k=\infty} tg\left(\frac{\pi}{3 \times 5^{k-1}}\right) \times \left[1 + tg\left(\frac{\pi}{12 \times 5^{k-2}}\right) \times tg\left(\frac{\pi}{12 \times 5^{k-1}}\right)\right] = 2 + \sqrt{3}$$

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$$k \in N$$

$$\prod_{k=1}^{k=\infty} \cos \frac{\pi}{2^{k+3}} = \frac{4 \times \sqrt{2-\sqrt{2}}}{\pi}$$

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

$$= \frac{\sqrt{6} + \sqrt{2}}{8}$$

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

$$= \frac{\sqrt{2+\sqrt{2}}}{4} \pm \frac{1}{2}$$

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$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times \frac{sin\left(\frac{5 \times \pi}{3^{k+1}}\right)}{cos\left(\frac{5 \times \pi}{4 \times 3^{k}}\right) \times cos\left(\frac{5 \times \pi}{4 \times 3^{k+1}}\right)} \qquad k \in N$$

$$= 2 + \sqrt{3}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} sin\left(\frac{3 \times \pi}{8 \times 7^k}\right) \times cos\left(\frac{\pi}{2 \times 7^k}\right) = \frac{\sqrt{2-\sqrt{2}}}{4}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} sin\left(\frac{5 \times \pi}{2^{k+3}}\right) \times sin\left(\frac{-5 \times \pi}{3 \times 2^{k+3}}\right) = \frac{\sqrt{6} - \sqrt{2} - 4}{8}$$

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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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