FORMULAS

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

FORMULA No.
W04

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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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D041

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} 3^{k-1} \times sin^3\left(\frac{\pi}{8 \times 3^{k-1}}\right) = \frac{3 \times \pi - 4 \times \sqrt{2+\sqrt{2}}}{32}$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} 3^{k-1} \times sin^3\left(\frac{5 \times \pi}{4 \times 3^{k+1}}\right) = \frac{5 \times \pi - 3 \times \left(\sqrt{6} + \sqrt{2}\right)}{48}$$

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} 3^{k-1} \times sin^3\left(\frac{5 \times \pi}{8 \times 3^k}\right) = \frac{5 \times \pi - 4 \times \sqrt{2+\sqrt{2}}}{32} \qquad k \in N$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} 3^{k-1} \times sin^3\left(\frac{\pi}{10 \times 3^k}\right) = \frac{2 \times \pi - 5 \times \left(\sqrt{5} - 1\right)}{80}$$

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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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