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

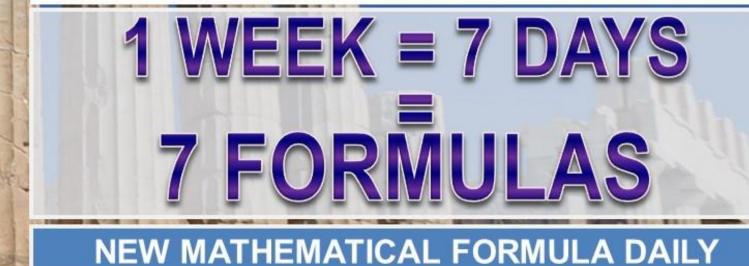
Euclid

# FORMULA No.

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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





FORMULA No.

D041

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



FORMULA No.

D042

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



FORMULA No.

D043

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



FORMULA No.

D044

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



FORMULA No.

D045

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



FORMULA No.

**D046** 

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



FORMULA No.

D047

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

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

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