FORMULAS

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

FORMULA No.
W03

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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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D031

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arccos\left(\frac{6-2\times\sqrt{5}+\sqrt{\left(2^{2\times k+2}-6+2\times\sqrt{5}\right)\times\left(2^{2\times k+4}-6+2\times\sqrt{5}\right)}}{2^{2\times k+3}}\right)=\frac{\pi}{10}$$

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D032

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} 3^{k-1} \times sin^3\left(\frac{\pi}{2 \times 3^{k+1}}\right) = \frac{\pi - 3}{24}$$

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$$k \in N$$

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

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D034

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} 3^{k-1} \times sin^3\left(\frac{\pi}{4 \times 3^k}\right) = \frac{\pi - 2 \times \sqrt{2}}{16}$$

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} 3^{k-1} \times sin^3\left(\frac{\pi}{3^{k+1}}\right) = \frac{2 \times \pi - 3 \times \sqrt{3}}{24} \qquad k \in N$$

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$$k \in N$$

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

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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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