FORMULAS

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

FORMULA No.
W02

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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

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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FORMULA No.

D021

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$$k \in N$$

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

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D022

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$$k \in N$$

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

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D023

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$$k \in N$$

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

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FORMULA No.

D024

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$$k \in N$$

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

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FORMULAS

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FORMULA No.

D025

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$$k \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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FORMULA No.

D026

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$$k \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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FORMULA No.

D027

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$$k \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

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

Thanks for:
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