FORMULAS

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

FORMULA No.

W36

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

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k - 1}{(4 \times k^2 - 8 \times k + 5) \times (4 \times k^2 + 1)} = \frac{1}{4}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\ ctg\left(2 \times (3-\sqrt{5}) \times k^2 - 2 \times \left(3-\sqrt{5}-\frac{\sqrt{25+10\times\sqrt{5}}}{5}\right) \times k - \sqrt{5-2\times\sqrt{5}} + 1 - \frac{2}{5} \times \sqrt{25-10\times\sqrt{5}} + \frac{2}{5} \times \sqrt{5}\right) = \frac{\pi}{5}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times \sqrt{2 \times k^2 + 4 \times k + 3} - (k+1) \times \sqrt{2 \times k^2 + 1} + 1}{k \times (k+1)} = 1 + \sqrt{2} - \sqrt{3}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\ tg\left(\frac{k \times (k+1)!}{(k+1) \times (k! - 1) \times [(k+1)! - 1] + \left((k+1)!\right)^2}\right) = \frac{\pi}{4}$$

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$$k \in N$$

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

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