FORMULAS

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

FORMULA No.

W27

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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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$$k \in N$$

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

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$$k \in N$$

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

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 11}{(k+2) \times (k+3) \times (k+8) \times (k+9)} = \frac{1}{27}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\,tg\left(\frac{36}{1332 \times k^2 - 1320 \times k - 5}\right) = arc\,tg(6)$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\,tg\left(\frac{\sqrt{5+2\times\sqrt{5}}\times 2^{k-1}}{(2^{k-1}-1)\times(2^{k}-1)\times\left(5+2\times\sqrt{5}\right)+2^{2\times k-1}}\right)=\frac{2\times\pi}{5}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times k \times \sqrt{k+1} + 4 \times k \times \sqrt{k} + 20 \times \sqrt{k \times (k+1)} + 20 \times k + 25 \times \sqrt{k+1} + 29 \times \sqrt{k} + 10} = \frac{1}{14}$$

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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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