FORMULAS

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

FORMULA No.

W34

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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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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k - 1}{(3 \times k^2 - 6 \times k + 4) \times (3 \times k^2 + 1)} = \frac{1}{3}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\,tg\left(\frac{81}{6642 \times k^2 - 6624 \times k - 8}\right) = arc\,tg(9)$$

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

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$$k \in N$$

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

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times \sqrt{7 \times k^2 + 14 \times k + 8} - (k+1) \times \sqrt{7 \times k^2 + 1} + 1}{k \times (k+1)} = 1 + \sqrt{7} - \sqrt{8}$$

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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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