FORMULAS

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

FORMULA No.

W09

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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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$$k \in N$$

$$\prod_{k=1}^{k=\infty} \left(1 - 4 \times sin\left(\frac{3 \times \pi}{8 \times 5^k}\right) \times sin\left(\frac{9 \times \pi}{8 \times 5^k}\right)\right) = \frac{\sqrt{2-\sqrt{2}}}{2}$$

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$$k \in N$$

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

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$$k \in N$$

$$\prod_{k=1}^{k=\infty} \frac{\cos\left(\frac{\pi}{5 \times 2^{k}}\right)}{\cos^{2}\left(\frac{\pi}{5 \times 2^{k+1}}\right)} = \frac{\pi}{2 \times \sqrt{25 - 10 \times \sqrt{5}}}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^3 - 13 \times k^2 - k + 1}{(4 \times k - 3) \times (4 \times k - 2) \times (4 \times k - 1) \times (4 \times k + 1) \times (4 \times k + 2)} = \frac{10 - \pi}{16^2}$$

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$$k \in N$$

$$\prod_{k=1}^{k=\infty} cos\left(\frac{\pi}{5 \times 2^{2 \times k-1}}\right) \times cos\left(\frac{\pi}{5 \times 2^{2 \times k}}\right) = \frac{5 \times \sqrt{10 - 2 \times \sqrt{5}}}{4 \times \pi}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{(k+5)\times(k+7)} = \frac{13}{84} \qquad k \in N$$

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$$k \in N$$

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

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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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