FORMULAS

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

FORMULA No.

W13

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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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D131

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{1}{k^2 \times (k+2)} = \frac{\pi^2}{12} - \frac{3}{8} \qquad k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{1}{k \times (k+3)} = \frac{11}{18} \qquad k \in N$$

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$$k \in N$$

$$\prod_{k=1}^{k=\infty}\left(5 - tg^2\left(\frac{\pi}{3 \times 2^{2\times k+2}}\right) - 2 \times \frac{tg\left(\frac{\pi}{3 \times 2^{2\times k+1}}\right)}{tg\left(\frac{\pi}{3 \times 2^{2\times k+2}}\right)}\right) = \frac{\left(2+\sqrt{3}\right)\times \pi}{12}$$

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$$\sum_{k=1}^{k=\infty} \frac{k+2}{k^2 \times (k+4)^2} = \frac{205}{1152} \qquad k \in N$$

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$$k \in N$$

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

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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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