FORMULAS

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

FORMULA No.

W08

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

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{1}{k^2 \times (k+2)^2} = \frac{4 \times \pi^2 - 33}{48} \qquad k \in N$$

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$$k \in N$$

$$\prod_{k=1}^{k=\infty} \frac{cos\left(\frac{3 \times \pi}{5 \times 2^{k}}\right)}{cos^{2}\left(\frac{3 \times \pi}{5 \times 2^{k+1}}\right)} = \frac{3 \times \pi}{2 \times \sqrt{25 + 10 \times \sqrt{5}}}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{(k+2)^2} = \frac{2 \times \pi^2 - 15}{12} \qquad k \in N$$

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$$k \in N$$

$$\prod_{k=1}^{k=\infty}\left(1-4\times sin\left(\frac{3\times\pi}{2\times 5^{k+1}}\right)\times sin\left(\frac{9\times\pi}{2\times 5^{k+1}}\right)\right)=\frac{\sqrt{10-2\times\sqrt{5}}}{4}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{(k+3)^2 \times (k+4)^2} = \frac{\pi^2}{3} - \frac{473}{144} \qquad k \in N$$

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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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