FORMULAS

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

FORMULA No.

W22

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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

NEW MATHEMATICAL FORMULA DAILY

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D221

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

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$$k \in N$$

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

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{k+2}{k \times (k+1) \times (k+3) \times (k+4)} = \frac{1}{8} \qquad k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 7}{(k+2) \times (k+3) \times (k+4) \times (k+5)} = \frac{1}{15}$$

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$$k \in N$$

$$\sum_{1}^{\infty} \frac{1}{k \times \sqrt{k+1} + k \times \sqrt{k} + 4 \times \sqrt{k \times (k+1)} + 4 \times k + 4 \times \sqrt{k+1} + 5 \times \sqrt{k} + 2} = \frac{1}{3}$$

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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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