FORMULAS

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

FORMULA No.

W19

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1 WEEK = 7 DAYS = 7 FORMULAS

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{e^3 \times ln(6 \times k + 1) - ln(6 \times k + 7)}{e^{3 \times k}} = ln7$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 7}{(k+1) \times (k+2) \times (k+5) \times (k+6)} = \frac{1}{12}$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k+4}{(k+2)\times(k+3)\times(k+5)\times(k+6)} = \frac{1}{36}$$

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 7}{(k+3)^2 \times (k+4)^2} = \frac{1}{16} \qquad k \in N$$

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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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