

FORMULA No.

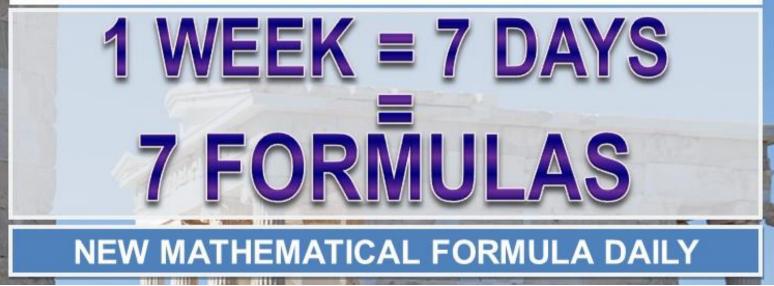
W39

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

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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





FORMULA No.

D391

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$$k \in N$$
$$\sum_{k=1}^{k=\infty} \frac{k \times \sqrt{4 \times k^2 + 8 \times k + 5} - (k+1) \times \sqrt{4 \times k^2 + 1} + 1}{k \times (k+1)} = 3 - \sqrt{5}$$



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D392

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$$\sum_{k=1}^{k=\infty} \frac{2 \times k - 1}{(5 \times k^2 - 10 \times k + 6) \times (5 \times k^2 + 1)} = \frac{1}{5}$$



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D393

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



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 $k \in N$

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



FORMULA No.

D395

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$$k \in N$$

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



FORMULA No.

D396

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$$\sum_{k=1}^{k=\infty} \frac{2 \times k^2 + 24 \times k + 73}{(k+5) \times (k+6) \times (k+7) \times (k+8)} = \frac{13}{48}$$



FORMULA No.

D397

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$$\sum_{k=1}^{k=\infty} sin\left(\frac{25 \times \pi}{3 \times 2^{2 \times k+4}}\right) \times sin\left(\frac{-5 \times \pi}{2^{2 \times k+4}}\right) =$$
$$= \frac{\left(\sqrt{2} + 2 \times \sqrt{3} + \sqrt{6} + 4\right) \times \sqrt{8 + 2 \times \sqrt{6} - 4 \times \sqrt{2} - 4 \times \sqrt{3} - 8}}{16}$$

We invite you every week and every day to our website www.and-just-math.com

> Thanks for: Photo nonbirinonko z Pixabay Photo Gordon Johnson z Pixabay Photo lange-adrian z Pixabay