

A marble bust of the mathematician Euclid, showing him with a full beard and hair, wearing a draped garment.

FORMULAS

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

FORMULA No.

W24

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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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$$\sum_{k=1}^{k=\infty} \frac{k + 4}{(k + 1) \times (k + 2) \times (k + 6) \times (k + 7)} = \frac{1}{28} \quad k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \operatorname{arc\,tg} \left(\frac{16}{17 \times k^2 + 111 \times k + 192} \right) = \operatorname{arc\,tg} \left(\frac{1}{4} \right) \quad k \in \mathbb{N}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{1}{k \times \sqrt{k+1} + k \times \sqrt{k} + 6 \times \sqrt{k \times (k+1)} + 6 \times k + 9 \times \sqrt{k+1} + 10 \times \sqrt{k} + 3} = \frac{1}{4}$$

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$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 7}{k \times (k + 1) \times (k + 6) \times (k + 7)} = \frac{1}{7} \quad k \in \mathbb{N}$$

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \operatorname{arc\,ctg}(4 \times (2 - \sqrt{3}) \times k^2 + 2 \times (3 \times \sqrt{3} - 2) \times k + 5 + 3 \times \sqrt{3}) = \frac{\pi}{12}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \text{arc tg} \left(\frac{4}{20 \times k^2 - 16 \times k - 1} \right) = \text{arc tg}(2)$$

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week and every day
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Thanks for:
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