

A marble bust of the ancient Greek 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.

**W35**

[www.and-just-math.com](http://www.and-just-math.com)

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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FORMULA No.

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$$\sum_{k=1}^{k=\infty} \frac{1}{2^k} \times tg \left( \frac{\pi}{3 \times 2^{k-1}} \right) = \frac{9 + 2 \times \sqrt{3} \times \pi}{6 \times \pi} \quad k \in N$$

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$$\sum_{k=1}^{k=\infty} \arctan \frac{3^{k-2} \times 2 \times \sqrt{3}}{1 + 3^{2 \times k - 2}} = \frac{\pi}{3} \quad k \in \mathbb{N}$$

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$$\prod_{k=1}^{k=\infty} \cos \frac{\pi}{5 \times 2^k} = \frac{5 \times \sqrt{10 - 2 \times \sqrt{5}}}{4 \times \pi} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{2^k} \times \operatorname{tg} \left( \frac{\pi}{5 \times 2^k} \right) = \frac{25 - \sqrt{25 + 10 \times \sqrt{5}} \times \pi}{5 \times \pi} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \arcsin \left( \frac{\sqrt{2^{2 \times k} - 1} - \sqrt{2^{2 \times k - 2} - 1}}{2^{2 \times k - 1}} \right) = \frac{\pi}{2} \quad k \in \mathbb{N}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times \sin\left(\frac{3 \times \pi}{5 \times 2^{k+1}}\right) \times \cos\left(\frac{\pi}{5 \times 2^{k+1}}\right) = \frac{\sqrt{10 - 2 \times \sqrt{5}}}{8}$$

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# FORMULAS

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FORMULA No.

**D357**

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$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times \cos\left(\frac{3 \times \pi}{5 \times 2^{k+1}}\right) \times \cos\left(\frac{\pi}{5 \times 2^{k+1}}\right) \quad k \in \mathbb{N}$$
$$= \frac{\sqrt{5} + 1}{8} \pm \frac{1}{2}$$

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week and every day  
to our website  
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