



# FORMULAS

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

FORMULA No.

**W22**

[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**

**NEW MATHEMATICAL FORMULA DAILY**



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$$\prod_{k=1}^{k=n} \frac{3 \times k^2 + k - 1}{3 \times k^2 - 5 \times k + 1} = -3 \times n^2 - n + 1 \quad k, n \in \mathbb{N}$$

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$$\prod_{k=1}^{k=n} \frac{3 \times k^2 - 5}{3 \times k^2 - 6 \times k - 2} = -\frac{3}{5} \times n^2 + 1 \quad k, n \in \mathbb{N}$$

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$$\prod_{k=1}^{k=n} \frac{3 \times k^2 + k + 1}{3 \times k^2 - 5 \times k + 3} = 3 \times n^2 + n + 1 \quad k, n \in \mathbb{N}$$

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$k, n \in N$

$$\prod_{k=1}^{k=n} \frac{9 \times k^2 - k - 10}{9 \times k^2 - 19 \times k} = -\frac{1}{10} \times n \times (9 \times n - 1) + 1$$

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$k, n \in \mathbb{N}$

$$\prod_{k=1}^{k=n} \frac{k^2 + 3 \times k + 1}{k^2 + k - 1} = n^2 + 3 \times n + 1$$

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$$\prod_{k=1}^{k=n} \frac{9 \times k^2 - k - 21}{9 \times k^2 - 19 \times k - 11} \quad k, n \in \mathbb{N}$$
$$= -\frac{1}{21} \times n \times (9 \times n - 1) + 1$$

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$$\prod_{k=1}^{k=n} \frac{3 \times k^2 + 11 \times k + 11}{3 \times k^2 + 5 \times k + 3} = \frac{3}{11} \times n^2 + n + 1 \quad k, n \in \mathbb{N}$$

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We invite you every  
week and every day  
to our website  
[www.and-just-math.com](http://www.and-just-math.com)

Thanks for:  
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