

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

FORMULA No.

**W22** 

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



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

FORMULA No.

**D221** 

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$$k, n \in N$$

$$\prod_{k=1}^{k=n} \frac{3 \times k^2 + k - 1}{3 \times k^2 - 5 \times k + 1} = -3 \times n^2 - n + 1$$



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$$k, n \in N$$

$$\prod_{1}^{k=n} \frac{3 \times k^2 - 5}{3 \times k^2 - 6 \times k - 2} = -\frac{3}{5} \times n^2 + 1$$



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

FORMULA No.

**D223** 

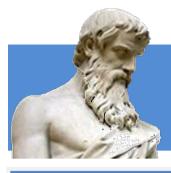
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 $k, n \in N$ 

$$\prod_{k=1}^{k=n} \frac{3 \times k^2 + k + 1}{3 \times k^2 - 5 \times k + 3} = 3 \times n^2 + n + 1$$



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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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 $k, n \in N$ 

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



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$$\prod_{k=1}^{k=n} \frac{9 \times k^2 - k - 21}{9 \times k^2 - 19 \times k - 11}$$

$$= -\frac{1}{21} \times n \times (9 \times n - 1) + 1$$



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**D227** 

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$$k, n \in N$$

$$\prod_{k=1}^{k=n} \frac{3 \times k^2 + 11 \times k + 11}{3 \times k^2 + 5 \times k + 3} = \frac{3}{11} \times n^2 + n + 1$$

