*In memory of Justynka, my wife*

# FORMULAS

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

FORMULA No.

W08

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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# FORMULAS

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Euclid

FORMULA No.

D081

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$$k \in N$$

$$\prod_{k=1}^{k=\infty}\left[1-\frac{7\times k+6}{7\times(k+1)\times(6\times 7^{k-1}\times k!+1)}\right]=\frac{6}{7}$$

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D082

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$$k \in N$$

$$\prod_{k=1}^{k=\infty} \left\{ 1 - \frac{60 \times [(k+5) \times p_k - p_{k+1}]}{59 \times (k+5)! + 60 \times (k+5) \times p_k} \right\} = \frac{59}{60}$$

$p_k$ *(k-th prime number)*

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**D083**

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$$k \in N$$

$$\prod_{k=1}^{k=\infty}\left[1+\frac{2\times\left(p_{k+1}!^{3}-p_{k}!^{2}\times p_{k+2}!\right)}{\left(p_{k}!^{2}-2\times p_{k+1}!\right)\times p_{k+1}!^{2}}\right]=-\frac{1}{2}$$

$p_k$ *(k-th prime number)*

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# FORMULAS

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**FORMULA No.**

**D084**

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$$k \in N$$

$$\prod_{k=1}^{k=\infty} \left\{ 1 + \frac{15 \times (p_k \times p_{k+3} - p_{k+1} \times p_{k+2}) \times p_{k+2}}{[4 \times p_{k+1} \times p_{k+2} - 15 \times (p_k \times p_{k+2} + {p_{k+1}}^2)] \times p_{k+3}} \right\} = 1\frac{11}{15}$$

*$p_k$ (k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2} + k - 1) \times (9 \times p_{k+3} - 10 \times p_{k+2} + p_{k+1} + 8)}{(p_{k+2} - p_{k+1} + 1) \times (p_{k+3} - p_{k+2} + 1) \times 3^{2 \times k - 1}} = 5\frac{3}{8}$$

*$p_k$ (k-th prime number)*

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$$k \in N$$

$$\prod_{k=1}^{k=\infty} \left\{ 1 - \frac{9 \times \left( {p_{k+2}}^{k+2} - {p_{k+1}}^{k+1} \right)}{\left( 8 \times {p_{k+1}}^{k+1} + 9 \right) \times {p_{k+2}}^{k+2}} \right\} = \frac{8}{9}$$

$p_k$ *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[(k+1) \times {p_{k+4}}^2 - 7 \times {p_{k+3}}^2] \times 7^{k+1}}{{p_{k+3}}^2 \times {p_{k+4}}^2 \times (k+1)!} = 1$$

$p_k$ *(k-th prime number)*

## NEW MATHEMATICAL FORMULA DAILY

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

Thanks for:
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