*In memory of Justynka, my wife*

# FORMULAS

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

**FORMULA No.**

**W35**

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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**D351**

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{5 \times (k+1) \times p_{k+2} - p_k}{p_k \times p_{k+1} \times p_{k+2} \times (k+1)! \times 5^k} = \frac{1}{6}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{k \times (p_k + 3) + p_k - p_{k+1}}{(k+1)!} = 5 \qquad k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{p_k \times p_{k+1} - (k-8) \times p_{k+1} + (k+11) \times p_k + 90}{(k+1) \times (k+2) \times (p_k + 10) \times (p_{k+1} + 10)} = \frac{11}{24}$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times (p_{k+2} + 1) \times ({p_k}^2 + 1) \times {p_{k+1}}^2 - (p_{k+2} - p_{k+1}) \times (p_k + 1) \times {p_k}^2}{(p_k + 1) \times (p_{k+1} + 1) \times (p_{k+2} + 1) \times {p_k}^2 \times {p_{k+1}}^2} = \frac{17}{48}$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+2) \times (p_k! - 1) \times p_{k+1}! - p_{k+1}! + p_k!}{(k+3)! \times p_k! \times p_{k+1}!} = \frac{1}{12}$$

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

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$$k \in N$$

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

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1}{}^2 - p_k \times p_{k+2}) \times (p_k{}^2 + 1) \times p_{k+1}{}^2 \times p_{k+2} - (p_{k+2}{}^2 - p_{k+1} \times p_{k+3}) \times p_k{}^3}{p_k{}^3 \times p_{k+1}{}^3 \times p_{k+2}} = \frac{11}{24}$$

*$p_k$ (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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