*In memory of Justynka, my wife*

# FORMULAS

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

FORMULA No.
**W14**

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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**D141**

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(2 \times p_{k+3} - p_{k+2} - p_{k+1}) \times k + 2 \times (p_{k+2} + 2 \times p_{k+3})}{k \times (k+1) \times (k+2) \times (p_{k+1} + 2 \times p_{k+2}) \times (p_{k+2} + 2 \times p_{k+3})} = \frac{1}{26}$$

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

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$$\sum_{k=1}^{k=\infty} arc\,tg\left\{\frac{2\times k+1}{k^2\times(k+1)^2+1}\right\} = \frac{\pi}{4} \qquad k \in N$$

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$$k \in N$$

$$\prod_{k=1}^{k=\infty} \left\{ 1 + \frac{k^2 \times (p_{k+1} \times p_{k+4} - p_{k+2} \times p_{k+3}) + p_{k+2} \times p_{k+3}}{[(p_{k+3} - p_{k+1}) \times k^2 - p_{k+1} \times k - p_{k+2}] \times p_{k+2}} \right\} = 0$$

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

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$$k \in N$$

$$\prod_{k=1}^{k=\infty}\left[1-\frac{17\times k+16}{17\times(k+1)\times(16\times 17^{k-1}\times k!+1)}\right]=\frac{16}{17}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(2 \times p_k + 7) \times p_{k+1} \times (p_{k+4} - p_{k+2}) \times p_{k+5} - 7 \times p_k \times p_{k+2} \times (p_{k+5} - p_{k+3})}{p_k \times p_{k+1} \times p_{k+2} \times p_{k+3} \times p_{k+4} \times p_{k+5}} = \frac{43}{385}$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{40 \times [(k+4) \times {p_{k+1}}^4 - {p_k}^4] - (k+4)! \times ({p_{k+1}}^4 - {p_k}^4)}{{p_k}^4 \times {p_{k+1}}^4 \times (k+4)!} = \frac{1}{24}$$

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

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$$k \in N$$

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

*$p_k$ (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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