# FORMULAS

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

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

# FORMULAS

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k + 3 \times p_k \times p_{k+1}) \times k + 3 \times p_{k+1} - p_k + 9 \times p_k \times p_{k+1}}{(k+1) \times (k+2) \times (k+3) \times p_k \times p_{k+1}} = 1\frac{7}{12}$$

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

## NEW MATHEMATICAL FORMULA DAILY

*In memory of Justynka, my wife*

FORMULA No.

# FORMULAS

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

## D182

**'No other science boosts the faith in the strength of the human spirit like mathematics.'**
**Hugo Steinhaus**

$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{4 \times (k+6) \times (k+7) \times (k+8) \times p_k{}^2 \times p_{k+1}{}^2 + (k^2+k-2) \times (k+2) \times (k+8) \times p_{k+1}{}^2 - k^2 \times (k+3) \times (k+6) \times p_k{}^2}{k \times (k+1) \times (k+2) \times (k+6) \times (k+7) \times (k+8) \times p_k{}^2 \times p_{k+1}{}^2} = 1$$

$p_k$ (k-th prime number)

*In memory of Justynka, my wife*

# FORMULAS

**FORMULA No.**

# D183

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$$k \in N$$

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

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[(4 \times p_k{}^2 + 11 \times p_{k+2}{}^2) \times p_{k+1}{}^2 - 15 \times p_k{}^2 \times p_{k+2}{}^2] \times 2^{2 \times k}}{p_k{}^2 \times p_{k+1}{}^2 \times p_{k+2}{}^2 \times 11^k} = \frac{5}{9}$$

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

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*In memory of Justynka, my wife*

# FORMULAS

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Euclid ●●●●●●

## FORMULA No.
# D185

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+1) \times [p_{k+1} \times p_{k+2} - 2 \times p_{k+1} \times p_{k+3} + p_{k+2} \times p_{k+3} + 2 \times (2 \times p_{k+2} - p_{k+1} - p_{k+3})]}{(p_{k+1} + 2) \times (p_{k+2} + 2) \times (p_{k+3} + 2)} = \frac{9}{35}$$

$p_k$ (k-th prime number)

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$$k \in N$$

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

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times (p_{k+8} \times p_{k+9} + p_{k+9} \times p_{k+10} - 2 \times p_{k+8} \times p_{k+10})}{p_{k+8} \times p_{k+9} \times p_{k+10}} = \frac{1}{23}$$

$p_k$ (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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