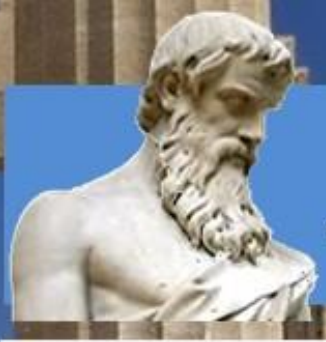

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W17

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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

In memory of Justynka, my wife

FORMULAS

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FORMULA No.

D171

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+4) \times ({p_{k+2}}^2 \times p_{k+3} - {p_{k+1}}^3) + {p_{k+2}}^2 \times p_{k+3}}{(k+4) \times (k+5) \times {p_{k+1}}^3 \times {p_{k+2}}^3 \times p_{k+3}} = \frac{1}{675}$$

p_k (k-th prime number)

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times [2 \times p_k \times p_{k+1} + 2 \times ({p_k}^2 + {p_{k+1}}^2) + 9 \times (p_k + p_{k+1}) + 7]}{p_k \times (p_k + 1) \times (2 \times p_k + 7) \times p_{k+1} \times (p_{k+1} + 1) \times (2 \times p_{k+1} + 7)} = \frac{1}{66}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{p_k \times p_{k+1} - (k-6) \times p_{k+1} + (k+9) \times p_k + 56}{(k+1) \times (k+2) \times (p_k + 8) \times (p_{k+1} + 8)} = \frac{9}{20}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{10 \times p_{k+1} \times p_{k+3} \times (100 \times p_{k+2} - p_k) - p_k \times p_{k+2} \times (100 \times p_{k+3} - p_{k+1})}{p_k \times p_{k+1} \times p_{k+2} \times p_{k+3} \times 10^{k-1}} = 498$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

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FORMULA No.

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+2) \times p_{k+1} - (k+1) \times p_k + 5}{(k+1) \times (k+2) \times (p_k + 5) \times (p_{k+1} + 5)} = \frac{1}{14}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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Euclid

FORMULA No.

D176

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[(k+4)\times(p_k!-1)\times p_{k+1}!-2\times(p_{k+1}!-p_k!)]\times 2^k}{(k+6)!\times p_k!\times p_{k+1}!} = \frac{1}{720}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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D177

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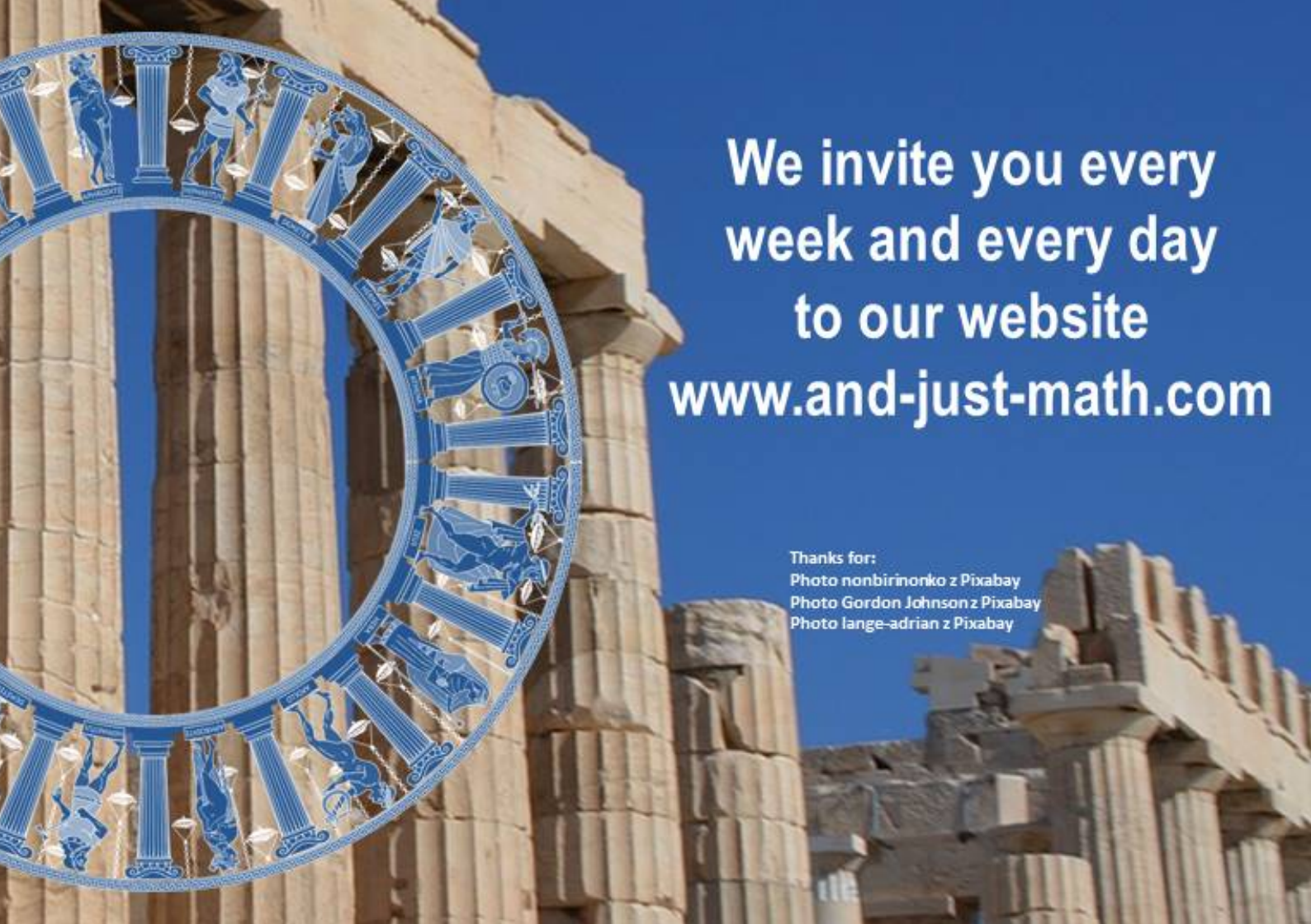
$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times [252 \times p_k \times p_{k+1} - 20 \times (p_k + p_{k+1})]}{{p_k}^2 \times {p_{k+1}}^2} = 121$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY



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