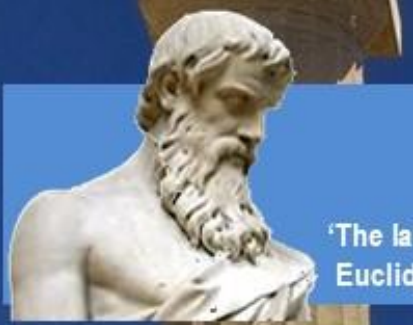

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W15

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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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Euclid

FORMULA No.

D151

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$$k \in N$$

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

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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FORMULAS

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Euclid

FORMULA No.

D152

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+2) \times {p_{k+2}}^{1+p_{k+2}} - {p_{k+1}}^{1+p_{k+1}}}{{p_{k+1}}^{1+p_{k+1}} \times {p_{k+2}}^{1+p_{k+2}} \times (k+2)!} = \frac{1}{162}$$

p_k *(k-th prime number)*

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FORMULA No.

D153

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$$k \in N$$

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

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

FORMULAS

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Euclid

FORMULA No.

D154

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times [2 \times p_k \times p_{k+1} + 2 \times ({p_k}^2 + {p_{k+1}}^2) + p_k + p_{k+1} - 1]}{p_k \times (p_k + 1) \times (2 \times p_k - 1) \times p_{k+1} \times (p_{k+1} + 1) \times (2 \times p_{k+1} - 1)} = \frac{1}{18}$$

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

FORMULAS

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Euclid

FORMULA No.

D155

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times p_k \times p_{k+1} - (k-3) \times p_{k+1} + (k+6) \times p_k + 10}{(k+1) \times (k+2) \times (2 \times p_k + 5) \times (2 \times p_{k+1} + 5)} = \frac{2}{9}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

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FORMULA No.

D156

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$$k \in N$$

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

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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D157

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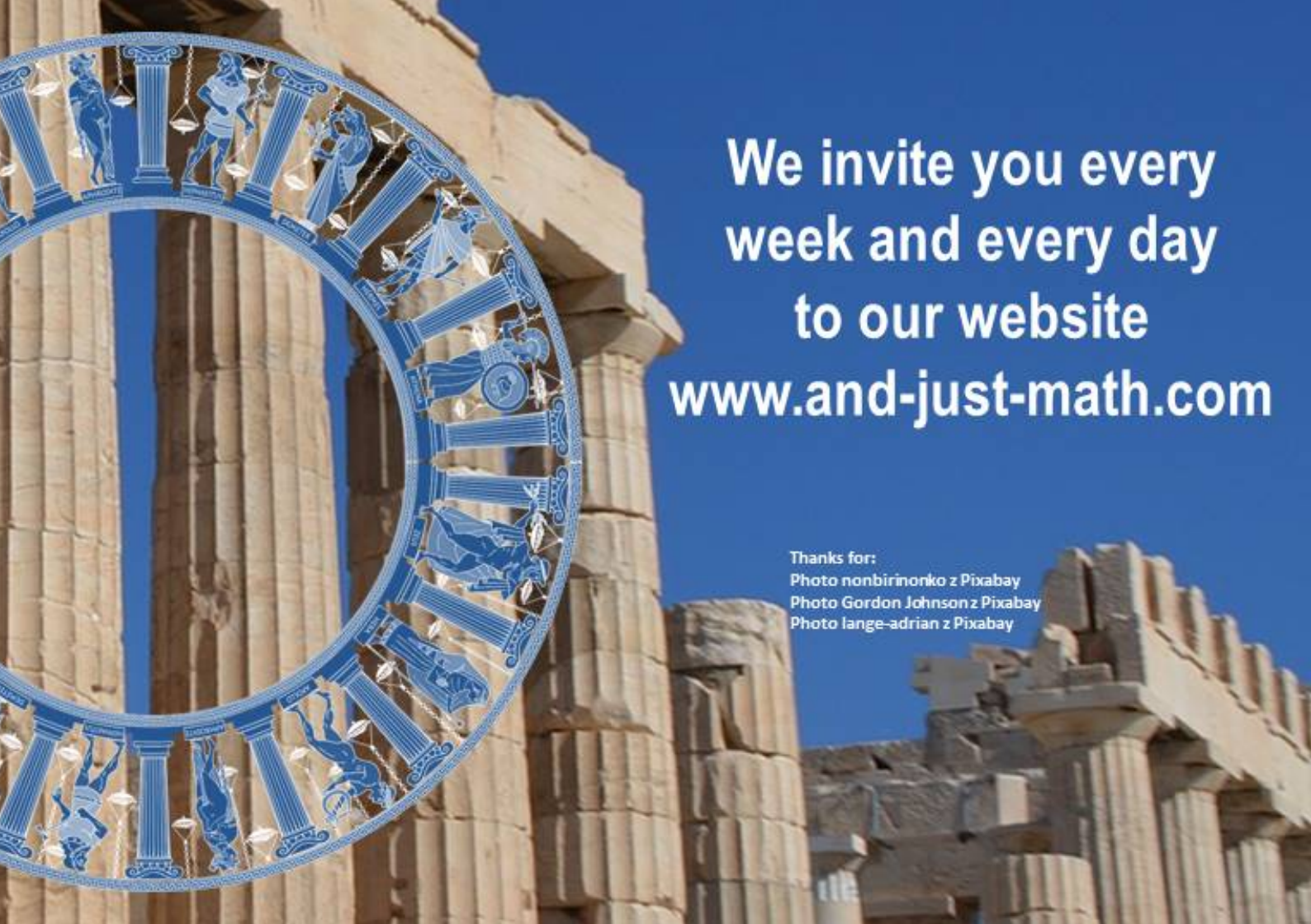
$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_k + 1) \times p_{k+1} \times (p_{k+2} - p_{k+1}) \times (p_{k+3} + 1) - p_k \times (p_{k+1} + 1) \times (p_{k+3} - p_{k+2})}{p_k \times p_{k+1} \times (p_{k+1} + 1) \times (p_{k+2} + 1) \times (p_{k+3} + 1)} = \frac{7}{24}$$

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY



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