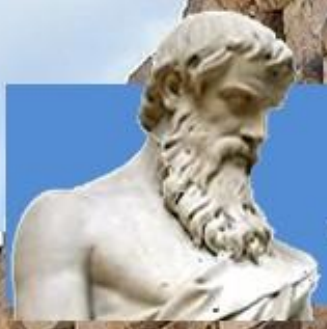

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W24

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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

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FORMULA No.

D241

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+4} - p_{k+3}) \times (p_k{}^2 + 1) \times p_{k+1}{}^2 \times p_{k+5} - (p_{k+5} - p_{k+4}) \times p_{k+3} \times p_k{}^2}{p_k{}^2 \times p_{k+1}{}^2 \times p_{k+3} \times p_{k+4} \times p_{k+5}} = \frac{12}{77}$$

p_k (k-th prime number)

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[(k-1)\times(p_k!-1)\times p_{k+1}! - 5\times(p_{k+1}! - p_k!)]\times 5^{k-1}}{(k+4)!\times p_k!\times p_{k+1}!} = \frac{1}{48}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_k + 1) \times p_{k+1} \times (p_{k+2} - p_{k+1}) \times (2 \times p_{k+3} + 1) - p_k \times (2 \times p_{k+1} + 1) \times (p_{k+3} - p_{k+2})}{p_k \times p_{k+1} \times (2 \times p_{k+1} + 1) \times (2 \times p_{k+2} + 1) \times (2 \times p_{k+3} + 1)} = \frac{13}{154}$$

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY

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$$k \in N$$

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

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{7^{k-1} \times [(k+2) \times p_{k+3}! - 7 \times p_{k+2}!]}{(k+2)! \times p_{k+2}! \times p_{k+3}!} = \frac{1}{240}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

FORMULAS

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Euclid

FORMULA No.

D246

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{5 \times (k+1) \times p_{k+2} \times p_{k+5} - p_{k+1} \times p_{k+4}}{p_{k+1} \times p_{k+2} \times p_{k+4} \times p_{k+5} \times (k+1)! \times 5^k} = \frac{1}{33}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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Euclid

FORMULA No.

D247

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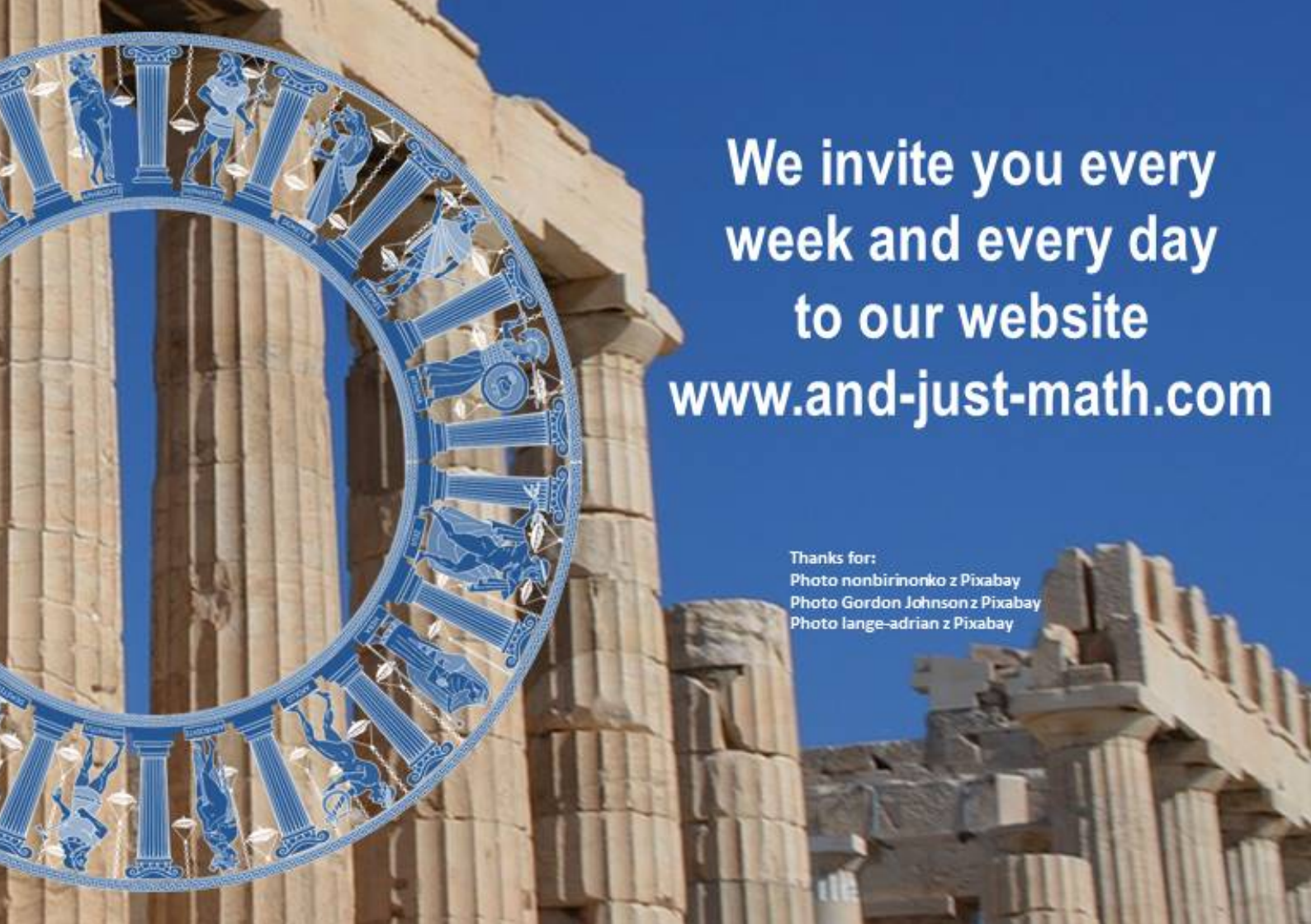
$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times (k+1) \times (k+3) \times p_{k+2} \times p_{k+6} - (k+2) \times p_{k+1} \times p_{k+5}}{p_{k+1} \times p_{k+2} \times p_{k+5} \times p_{k+6} \times (k+3)! \times 2^k} = \frac{1}{117}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY



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