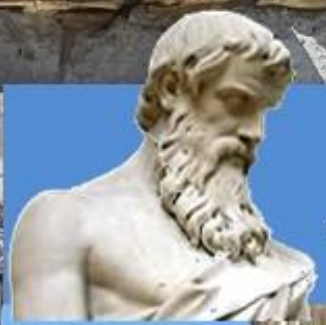

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W43

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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.

D431

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times (p_{k+4} \times p_{k+5} + p_{k+5} \times p_{k+6} - 2 \times p_{k+4} \times p_{k+6})}{p_{k+4} \times p_{k+5} \times p_{k+6}} = \frac{1}{11}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_k + 2) \times (p_{k+2} - p_{k+1}) \times p_{k+3} - 2 \times (p_{k+3} - p_{k+2}) \times p_k}{p_k \times p_{k+1} \times p_{k+2} \times p_{k+3}} = \frac{7}{15}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+3) \times \left({p_k}^2 - 1\right) \times {p_{k+1}}^5 - \left({p_{k+1}}^2 - 1\right) \times {p_k}^5}{{p_k}^5 \times {p_{k+1}}^5 \times (k+3)!} = \frac{1}{64}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D434

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$$k \in N$$

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

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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Euclid

FORMULA No.

D435

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{\left[13 \times \left({p_k}^2 + 1\right) \times {p_{k+1}}^2 - 2 \times {p_k}^2\right] \times 2^{k+1}}{{p_k}^2 \times {p_{k+1}}^2 \times 13^k} = 5\frac{8}{11}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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Euclid

FORMULA No.

D436

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{5 \times (k+1) \times p_{k+2} \times p_{k+7} - p_{k+1} \times p_{k+6}}{p_{k+1} \times p_{k+2} \times p_{k+6} \times p_{k+7} \times (k+1)! \times 5^k} = \frac{1}{51}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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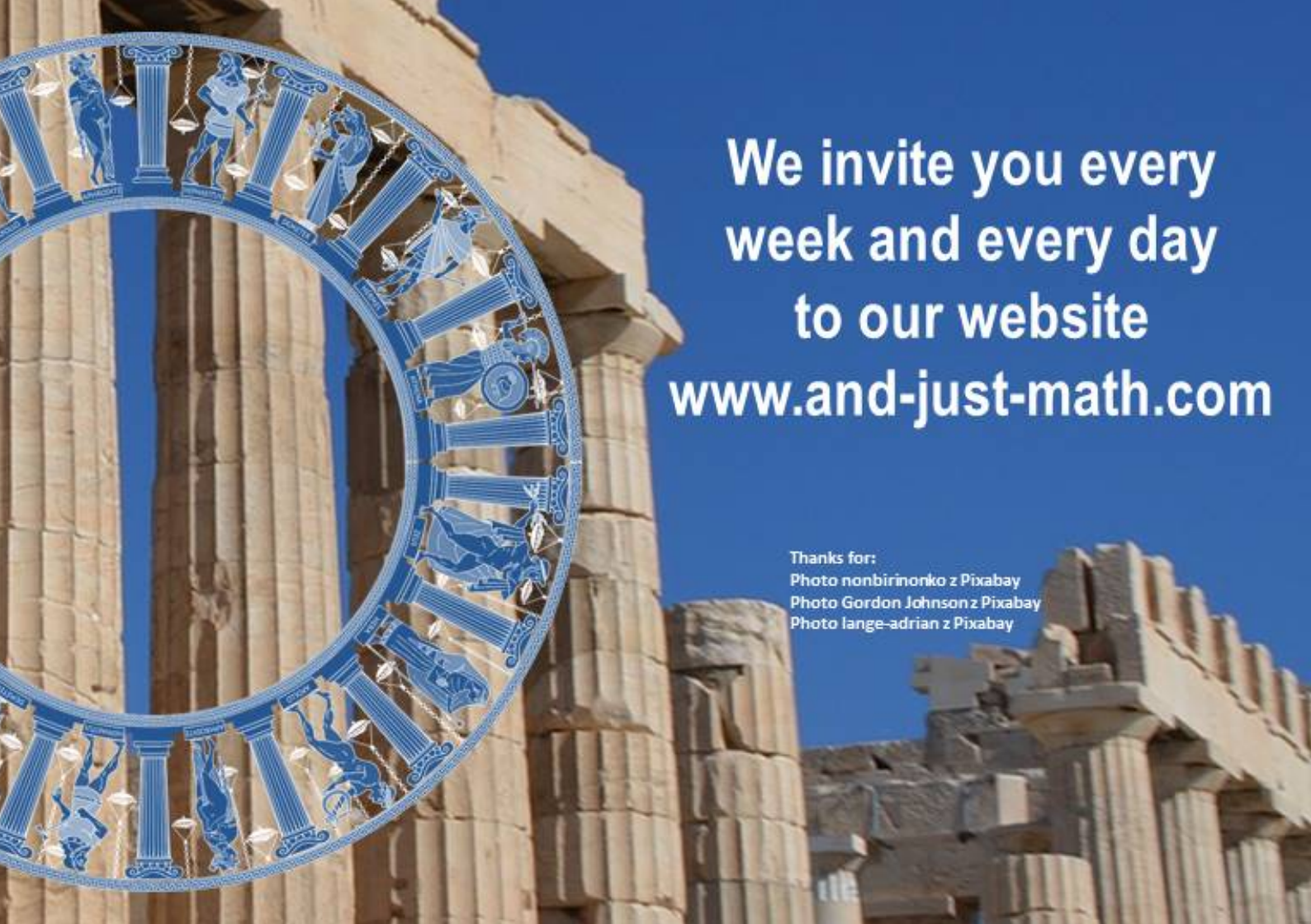
$$k \in N$$

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

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY



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