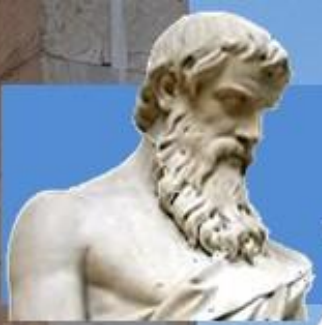

In memory of Justynka, my wife

FORMULAS

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

FORMULA No. W37

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We are not mathematicians, but we love mathematics and create formulas ourselves.

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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.

D371

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times (p_{k+7} \times p_{k+8} + p_{k+8} \times p_{k+9} - 2 \times p_{k+7} \times p_{k+9})}{p_{k+7} \times p_{k+8} \times p_{k+9}} = \frac{1}{19}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(5 \times p_k + 1) \times (p_{k+2} - p_{k+1}) \times p_{k+3} - (p_{k+3} - p_{k+2}) \times p_k}{p_k \times p_{k+1} \times p_{k+2} \times p_{k+3}} = 1\frac{11}{15}$$

p_k (k-th prime number)

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$$k \in N$$

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

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY

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Euclid

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times p_k \times p_{k+1} - (k-5) \times p_{k+1} + (k+8) \times p_k + 21}{(k+1) \times (k+2) \times (2 \times p_k + 7) \times (2 \times p_{k+1} + 7)} = \frac{5}{22}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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FORMULAS

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Euclid

FORMULA No.

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$$k \in N$$

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

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

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Euclid

FORMULA No.

D376

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+5) \times (p_k! - 1) \times p_{k+1}! - p_{k+1}! + p_k!}{(k+6)! \times p_k! \times p_{k+1}!} = \frac{1}{1440}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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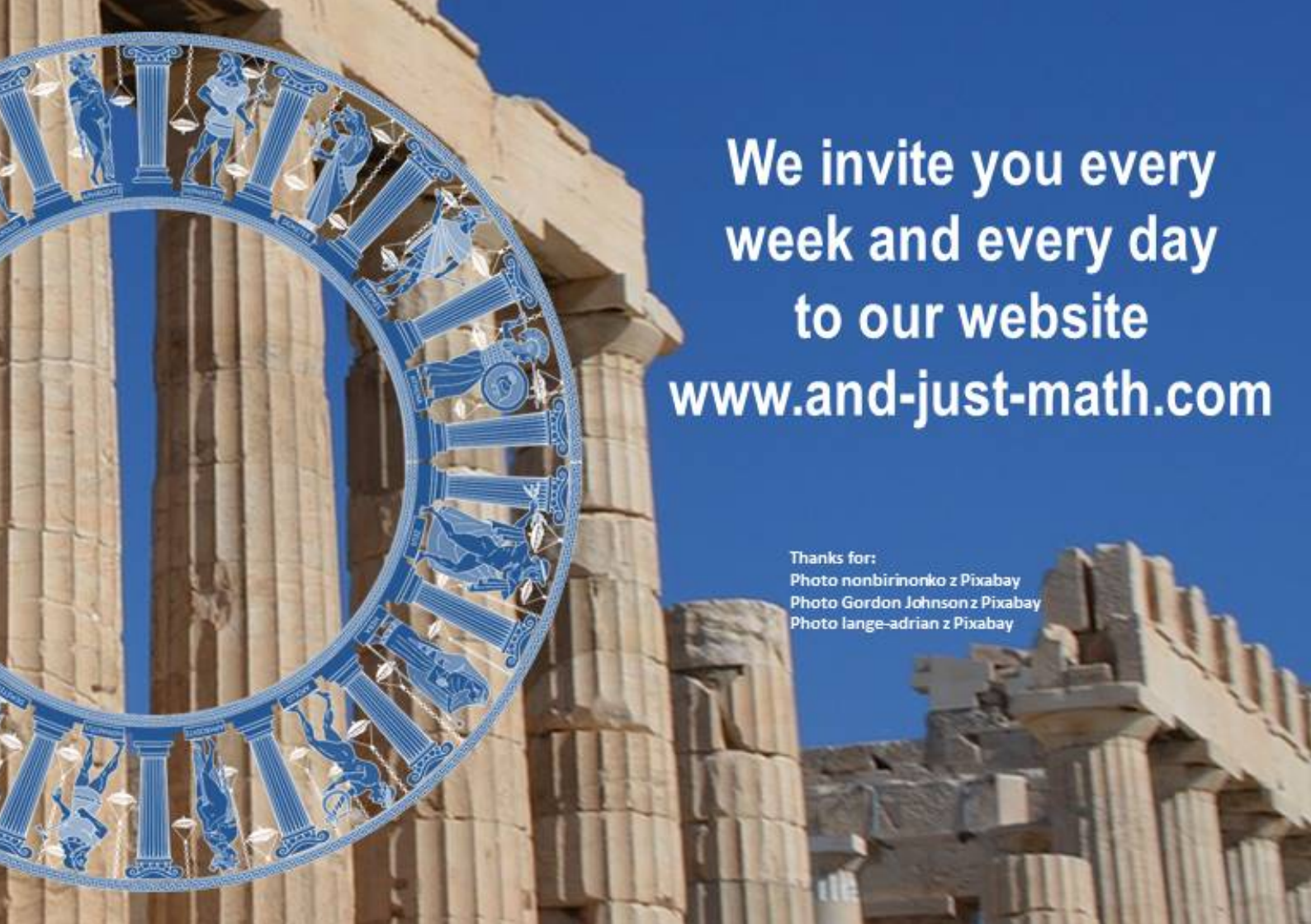
$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times (p_{k+2} + 2) \times ({p_k}^2 + 1) \times {p_{k+1}}^2 - (p_{k+2} - p_{k+1}) \times (p_k + 2) \times {p_k}^2}{(p_k + 2) \times (p_{k+1} + 2) \times (p_{k+2} + 2) \times {p_k}^2 \times {p_{k+1}}^2} = \frac{21}{80}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY



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