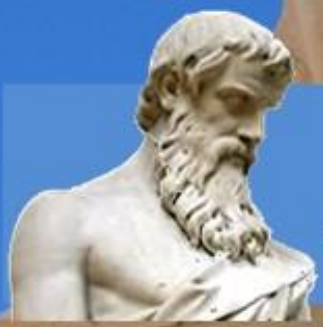

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W27

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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.

D271

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k + 7 \times p_k \times p_{k+1}) \times k + 3 \times p_{k+1} - p_k + 21 \times p_k \times p_{k+1}}{(k+1) \times (k+2) \times (k+3) \times p_k \times p_{k+1}} = 3\frac{7}{12}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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$$k \in N$$

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

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_k + 1) \times p_{k+1} \times (p_{k+2} - p_{k+1}) \times (p_{k+3} + 11) - p_k \times (p_{k+1} + 11) \times (p_{k+3} - p_{k+2})}{p_k \times p_{k+1} \times (p_{k+1} + 11) \times (p_{k+2} + 11) \times (p_{k+3} + 11)} = \frac{17}{224}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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D274

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times [2 \times p_k \times p_{k+1} + 2 \times ({p_k}^2 + {p_{k+1}}^2) + 7 \times (p_k + p_{k+1}) + 5]}{p_k \times (p_k + 1) \times (2 \times p_k + 5) \times p_{k+1} \times (p_{k+1} + 1) \times (2 \times p_{k+1} + 5)} = \frac{1}{54}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

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$$k \in N$$

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

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times [p_{k+2} \times p_{k+4} \times p_{k+6} \times (p_{k+1} \times p_{k+3} + p_{k+5} \times p_{k+7}) - p_{k+1} \times p_{k+3} \times p_{k+5} \times p_{k+7} \times (p_{k+2} + p_{k+6})]}{p_{k+1} \times p_{k+2} \times p_{k+3} \times p_{k+4} \times p_{k+5} \times p_{k+6} \times p_{k+7}} = \frac{1153}{15015}$$

p_k (k-th prime number)

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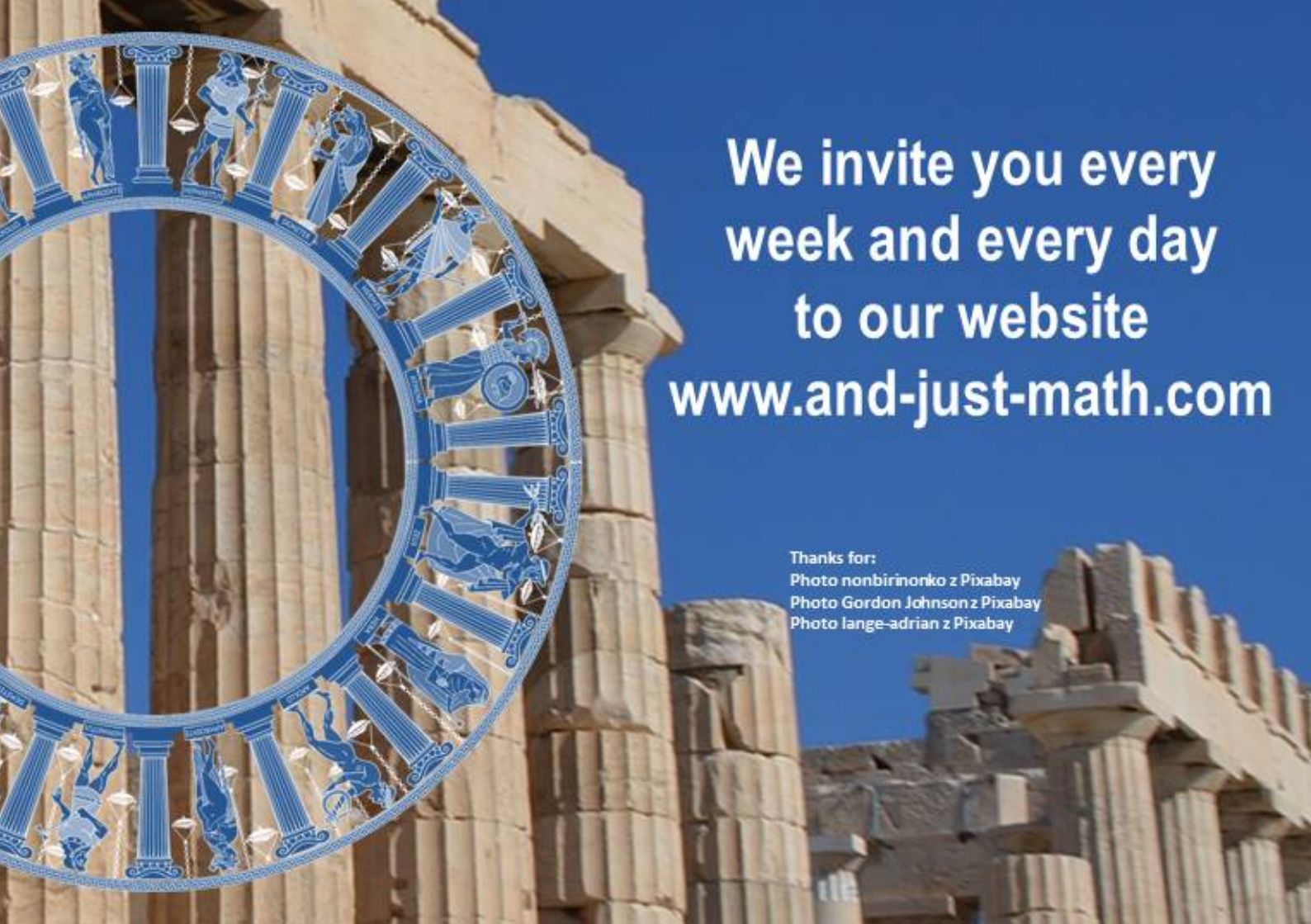
$$k \in N$$

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

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY



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