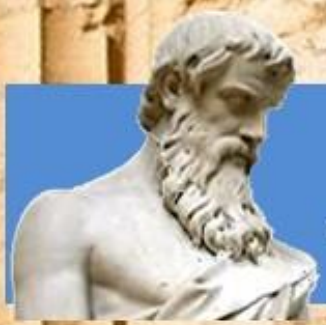

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W18

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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.

D181

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{7 \times 2^{3\times k-3} + 1}{2^{6\times k-3} + 9 \times k \times 2^{3\times k-3} + 2^{3\times k-3} + k^2 + k} = \frac{1}{2}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{(7 \times k + 4) \times (7 \times k + 11)} = \frac{1}{77} \qquad k \in N$$

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FORMULA No.

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$$k \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

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Euclid

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$$\sum_{k=1}^{k=\infty} \frac{1}{64 \times k^2 - 80 \times k + 9} = -\frac{1}{8} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULAS

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Euclid

FORMULA No.

D185

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^2 - k - 1}{k^2 \times (k+1)^2} = 0$$

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

FORMULAS

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Euclid

FORMULA No.

D186

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{42 \times k^2 - 40 \times k - 1}{(3 \times k - 2) \times (3 \times k + 1) \times (39 \times k - 38) \times (39 \times k + 1)} = \frac{1}{117}$$

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

FORMULAS

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Euclid

FORMULA No.

D187

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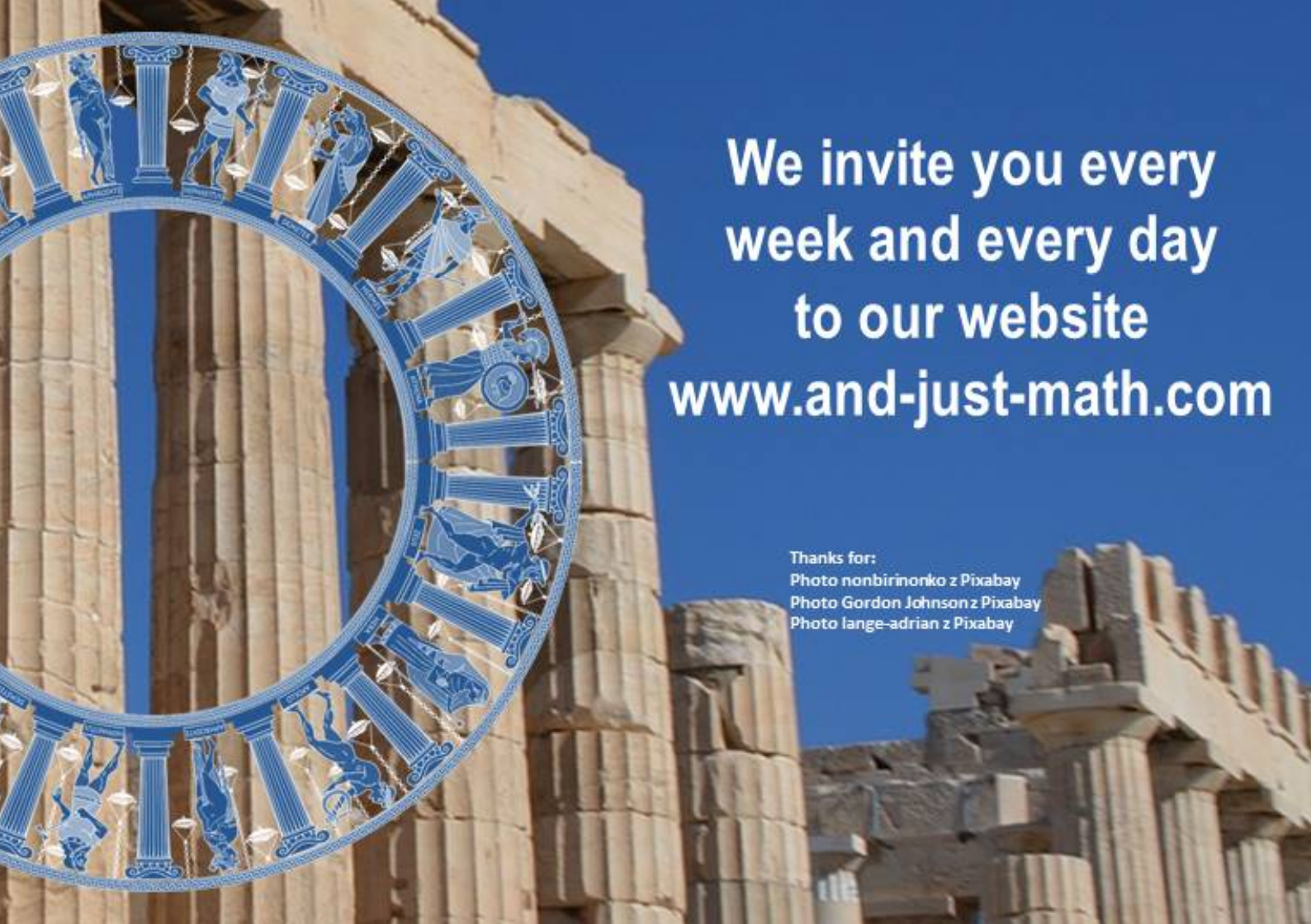
$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3^{k-1} \times \left[(3 \times k + 4)^{k+1} + 9 \times (3 \times k - 2)^{k-1} - 6 \times (3 \times k + 1)^{k}\right]}{\left[(3 \times k + 4)^{k+1} - 3 \times (3 \times k + 1)^{k}\right] \times \left[(3 \times k + 1)^{k} - 3 \times (3 \times k - 2)^{k-1}\right]} = 1$$

NEW MATHEMATICAL FORMULA DAILY



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Thanks for:
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