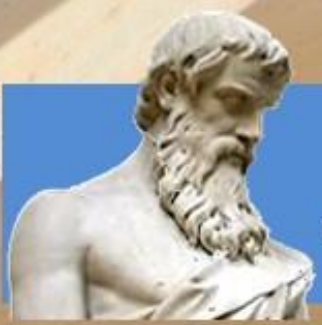

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W38

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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.

D381

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$$\sum_{k=1}^{k=\infty} \frac{1}{8 \times k^2 - 4 \times \sqrt{2} \times k - 1} = \frac{2 + \sqrt{2}}{4} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULAS

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{15 \times k! \times \left(k^2 + k + 1\right) + 2^k}{(15 \times k \times k! + 2^k) \times [15 \times (k+1) \times (k+1)! + 2^{k+1}]} = \frac{1}{17}$$

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$$\sum_{k=1}^{k=\infty} \frac{(k+1)\times 2^{k}}{(k+3)!} = \frac{1}{3} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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$$\sum_{k=1}^{k=\infty} \frac{k}{144 \times k^4 - 120 \times k^2 + 1} = \frac{1}{24} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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$$\sum_{k=1}^{k=\infty} \frac{\sin\left(\frac{7\times\pi}{24\times k\times(k+1)}\right)}{\sin\left(\frac{(12\times k+5)\times\pi}{24\times(k+1)}\right)\times\sin\left(\frac{(12\times k-7)\times\pi}{24\times k}\right)} \qquad k\in N$$

$$= \sqrt{6}+2-\sqrt{3}-\sqrt{2}$$

NEW MATHEMATICAL FORMULA DAILY

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{14 \times k^2 - 12 \times k - 1}{k \times (k+1) \times (13 \times k - 12) \times (13 \times k + 1)} = \frac{1}{13}$$

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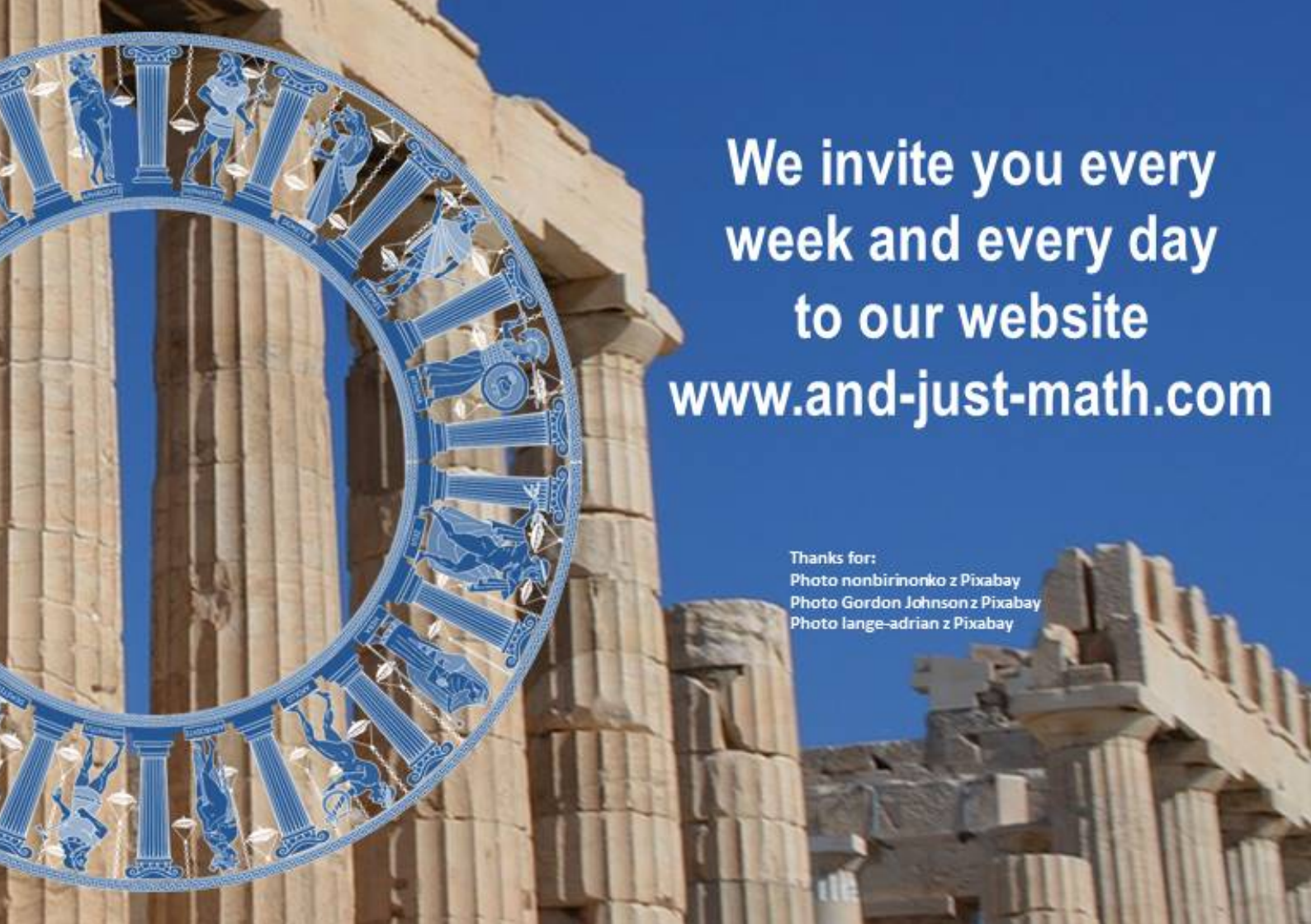
$$\sum_{k=1}^{k=\infty} \frac{(k-1)\times k-9}{(k+2)^2\times(k+3)^2} = 0 \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY



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Thanks for:
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