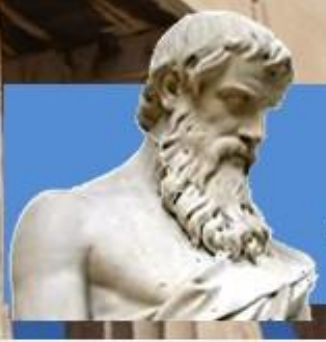

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W04

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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

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FORMULA No.

D041

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$$\sum_{k=1}^{k=\infty} \frac{3 \times (k+2)^5 - (k+1)^4}{k! \times [(k+1) \times (k+2)]^5 \times 3^k} = \frac{1}{32} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{7 \times (k+1)^{k-6} - k^{k-7}}{k^{k-7} \times (k+1)^{k-6} \times 7^{k}} = 1 \qquad k \in N$$

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$$k \in N$$

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

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$$k \in N$$

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

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Euclid

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$$\sum_{k=1}^{k=\infty} \frac{sin\left(\frac{(4\times k-1)\times \pi}{2^{2\times k+3}\times k!}\right)}{cos\left(\frac{\pi}{2^{2\times k+3}\times k!}\right)\times cos\left(\frac{\pi}{2^{2\times k+1}\times (k-1)!}\right)} = \sqrt{2}-1 \qquad k\in N$$

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$$\sum_{k=1}^{k=\infty} \frac{5 \times (k+1)! \times k^k - 1}{(k+1)! \times (k!)^{k+1} \times 5^k} = 1 \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULAS

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Euclid

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FORMULA No.

D047

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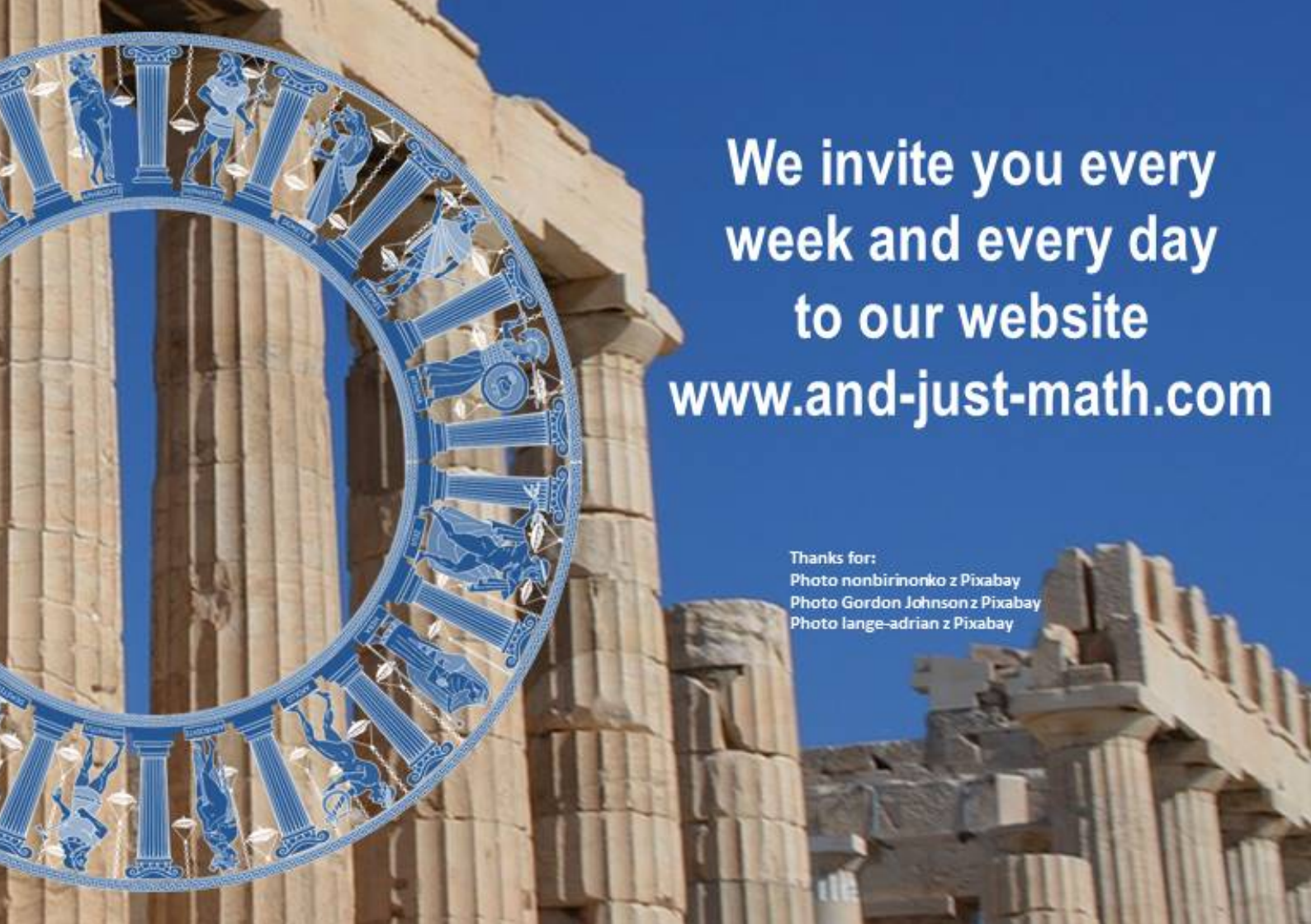
$$k \in N$$

$$\sum_{k=1}^{k=\infty} sin\left(\frac{(k-1)\times 2^{k-1}\times \pi}{6\times (k+1)!}\right)\times \left[\sqrt{3}\times sin\left(\frac{(k+1)!-(k+3)\times 2^{k-2}}{3\times (k+1)!}\times \pi\right)+cos\left(\frac{(k+1)!-(k+3)\times 2^{k-2}}{3\times (k+1)!}\times \pi\right)\right]=\frac{\sqrt{3}}{2}$$

NEW MATHEMATICAL FORMULA DAILY



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Thanks for:
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