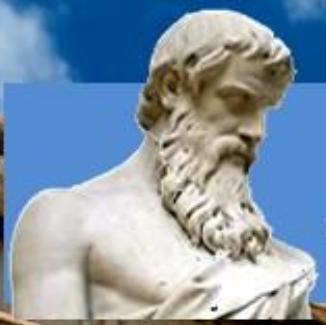

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W01

www.and-just-math.com
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.

D011

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3 \times k - 4 \times [(k+1)! - 1] \times sin^2\left(\frac{1}{749263 \times 3^{k+3}}\right)}{3^k \times (k+1)! \times sin\left(\frac{1}{749263 \times 3^{k+2}}\right)} = 20230101$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D012

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$$\sum_{k=1}^{k=\infty} \frac{(k+8)\times 3^{k-1}}{(k+11)!} = \frac{1}{11!} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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$$\sum_{k=1}^{k=\infty} \frac{(k+2)^2}{k \times (k+1) \times (k+4)!} = \frac{1}{24} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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$$\sum_{k=1}^{k=\infty} \frac{\sin\left(\frac{(8\times k-1)\times\pi}{2^{3\times k+3}\times k!}\right)}{\cos\left(\frac{\pi}{2^{3\times k+3}\times k!}\right)\times\cos\left(\frac{\pi}{2^{3\times k}\times(k-1)!}\right)} \qquad k\in N$$

$$= \sqrt{2}-1$$

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$$k \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

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Euclid

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$$\sum_{k=1}^{k=\infty} \frac{k^3 + 5 \times k^2 + 6 \times k + 1}{(k+1)! \times (k+3)!} = \frac{1}{3} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

FORMULAS

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FORMULA No.

D017

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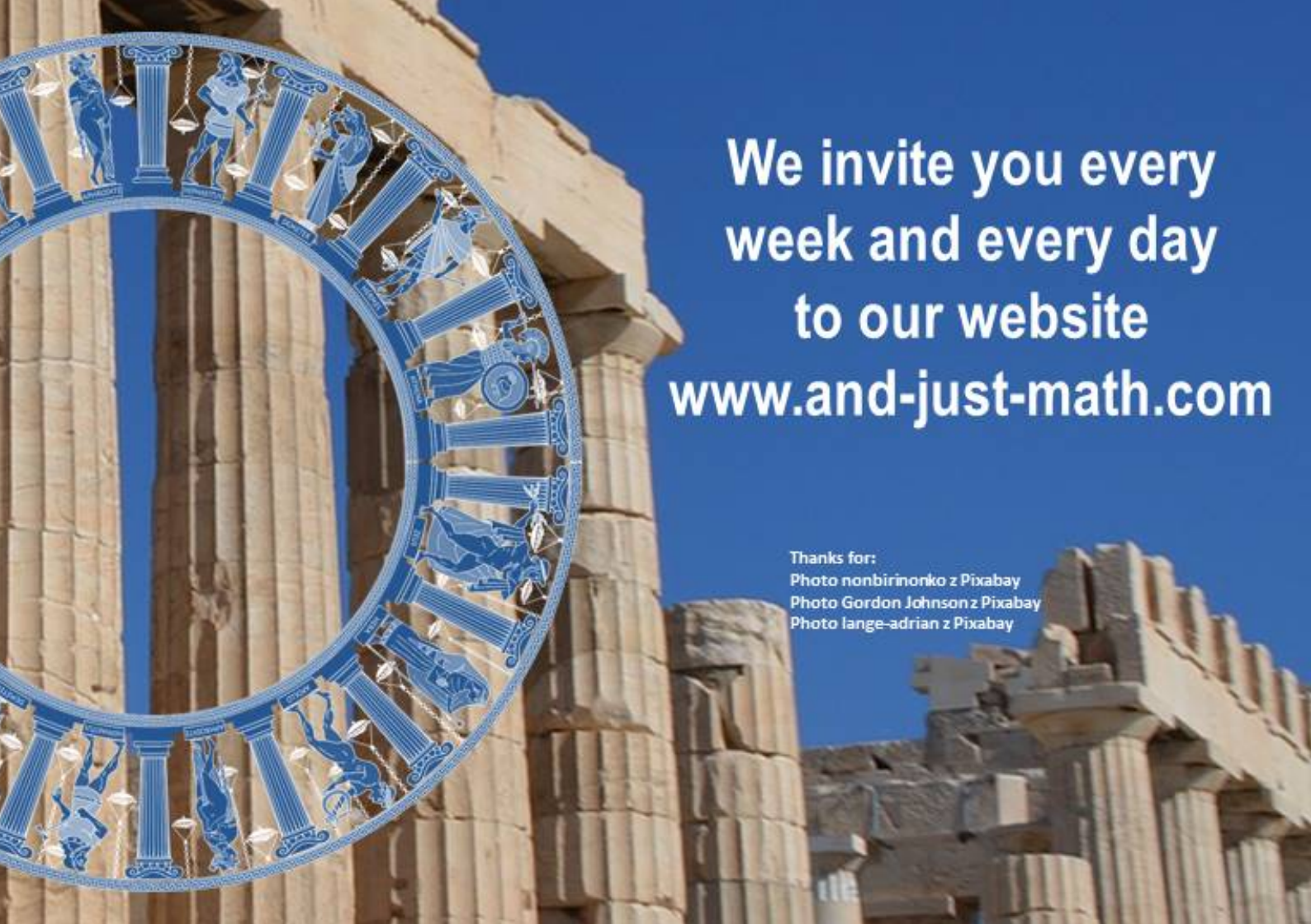
$$k \in N$$

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

NEW MATHEMATICAL FORMULA DAILY



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Thanks for:
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