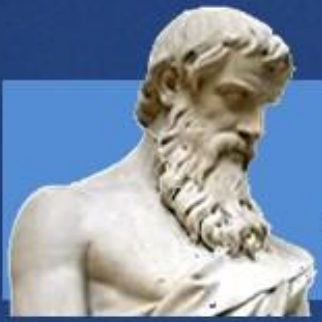

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W49

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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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FORMULA No.

D491

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

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$$\sum_{k=1}^{k=\infty} \frac{\left(k^2 + 3 \times k + 5\right) \times 3^k}{k \times (k+1) \times (k+5)!} = \frac{1}{40} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{(k+4) \times 2^{k-1}}{(k+6)!} = \frac{1}{720} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} sin\left(\frac{\pi}{8 \times k \times (k+1)}\right) \times \left[sin\left(\frac{(2 \times k^2 - 1) \times \pi}{8 \times k \times (k+1)}\right) + cos\left(\frac{(2 \times k^2 - 1) \times \pi}{8 \times k \times (k+1)}\right)\right] = \frac{1}{2}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2^k + k \times 2^{k-1} + 7}{k \times (k+1) \times (2^{k-1} + 7) \times (2^k + 7)} = \frac{1}{8}$$

NEW MATHEMATICAL FORMULA DAILY

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

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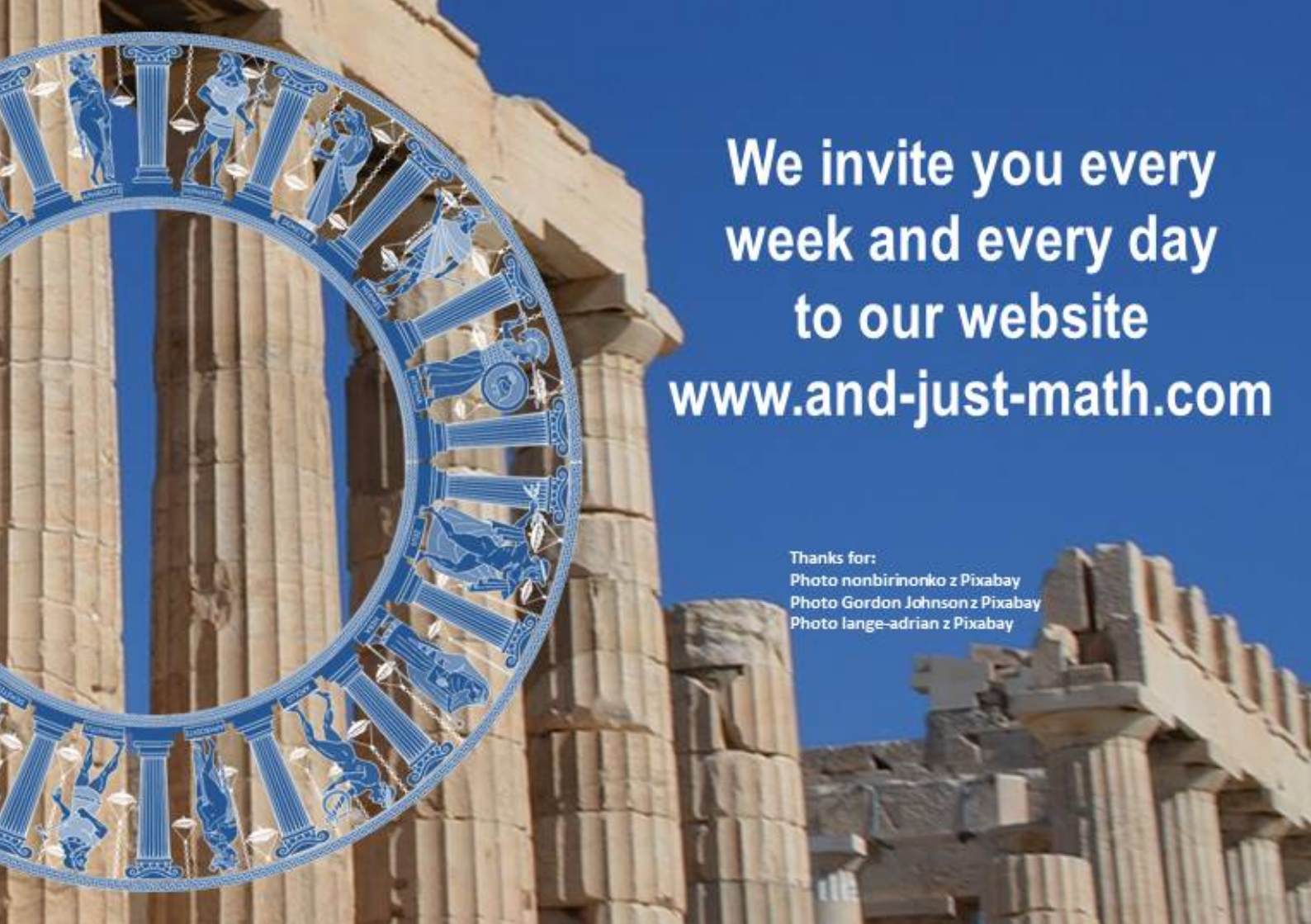
$$\sum_{k=1}^{k=\infty} \frac{4 \times k + 3}{2^{2 \times k} \times (k+1)!} = 1 \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY



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Thanks for:
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