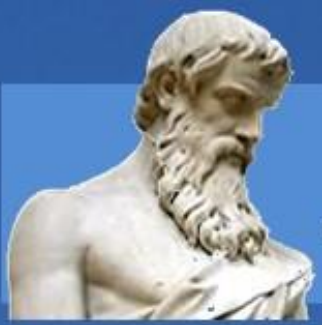

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W25

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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

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

FORMULA No.

D251

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} 3^{k-1} \times sin^3\left(\frac{\pi}{10 \times 3^{k-2}}\right) = \frac{18 \times \pi - 5 \times \left(\sqrt{5} - 1\right)}{80}$$

NEW MATHEMATICAL FORMULA DAILY

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{7 \times k! \times (k^2 + k + 1) + 4 \times 3^k}{(7 \times k \times k! + 2 \times 3^k) \times [7 \times (k+1) \times (k+1)! + 2 \times 3^{k+1}]} = \frac{1}{13}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{64 \times k^2 - 48 \times k - 7} = \frac{1}{8}^{k \in N}$$

NEW MATHEMATICAL FORMULA DAILY

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$$\sum_{k=1}^{k=\infty} \frac{(k+3) \times 2^k}{(k+5)!} = \frac{1}{60} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{20 \times k^2 - 18 \times k - 1}{k \times (k+1) \times (19 \times k - 18) \times (19 \times k + 1)} = \frac{1}{19}$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D256

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{7^{k-1} \times \left[(7 \times k + 8)^{k+1} + 49 \times (7 \times k - 6)^{k-1} - 14 \times (7 \times k + 1)^{k}\right]}{\left[(7 \times k + 8)^{k+1} - 7 \times (7 \times k + 1)^{k}\right] \times \left[(7 \times k + 1)^{k} - 7 \times (7 \times k - 6)^{k-1}\right]} = 1$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D257

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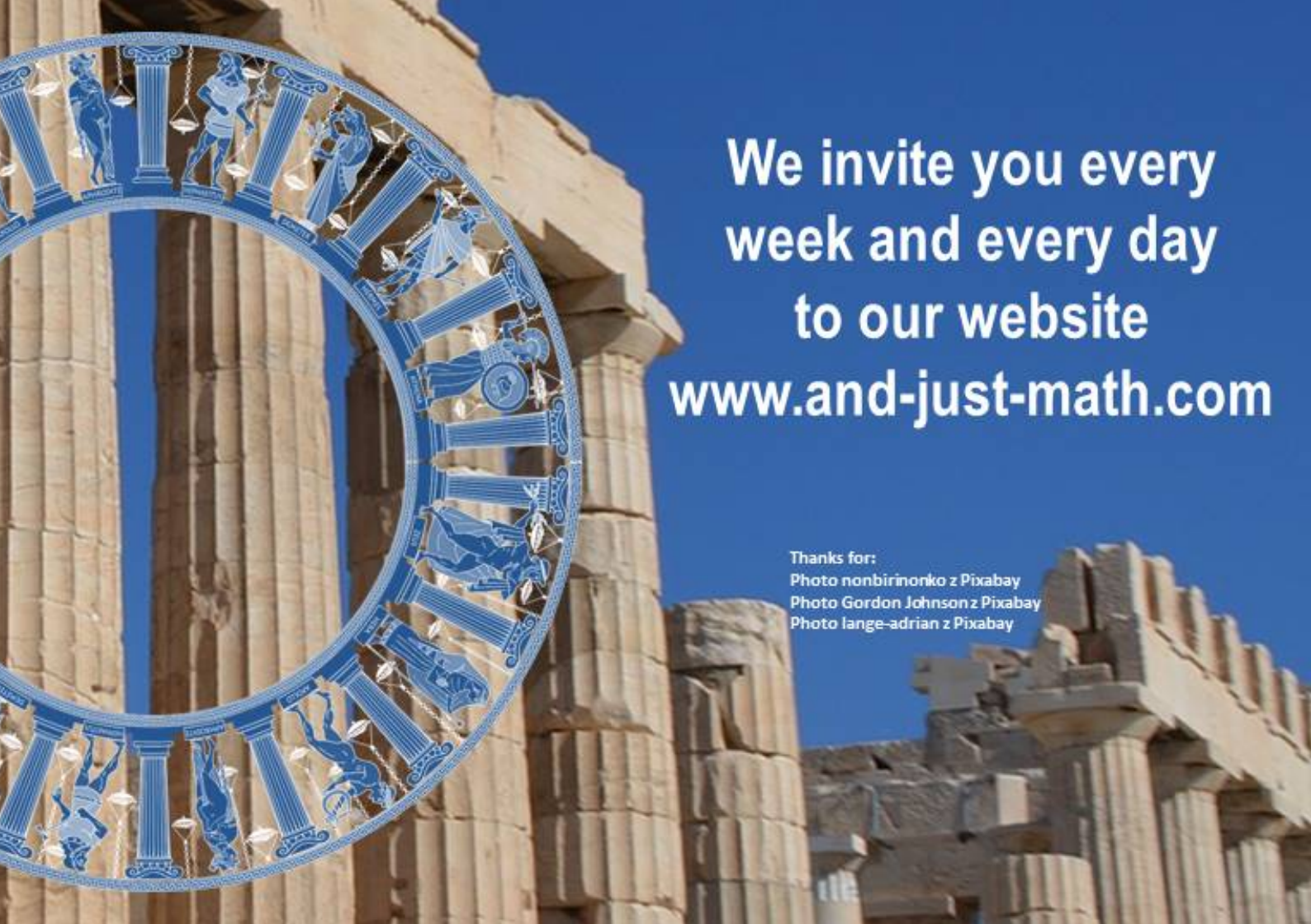
$$k \in N$$

$$\prod_{k=1}^{k=\infty}\left(1-4\times sin^2\left(\frac{\pi}{24\times 5^k}\right)+3,2\times sin^4\left(\frac{\pi}{24\times 5^k}\right)\right)$$

$$=\frac{3\times\left(\sqrt{2}+\sqrt{6}-2\right)\times\sqrt{8+2\times\sqrt{6}-4\times\sqrt{2}-4\times\sqrt{3}}}{\pi}$$

NEW MATHEMATICAL FORMULA DAILY



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Thanks for:
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