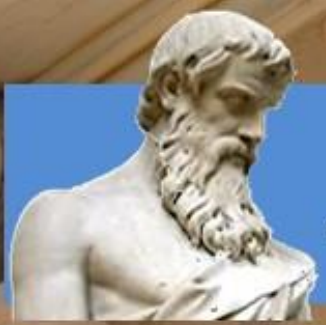

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W32

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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.

D321

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} 3^{k-1} \times sin^3\left(\frac{5 \times \pi}{8 \times 3^{k-1}}\right) = \frac{15 \times \pi + 4 \times \sqrt{2-\sqrt{2}}}{32}$$

NEW MATHEMATICAL FORMULA DAILY

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k! \times (k^2 + k + 1) + 2^{k+3}}{(k \times k! + 2^{k+3}) \times [(k+1) \times (k+1)! + 2^{k+4}]} = \frac{1}{17}$$

NEW MATHEMATICAL FORMULA DAILY

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$$k \in N$$

$$\prod_{k=1}^{k=\infty} \frac{(k+3)\times(k+4)\times(2\times k+1)\times(2\times k+3)}{(k+1)\times(k+2)\times(2\times k+5)\times(2\times k+7)} = \frac{175}{384}$$

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

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Euclid

FORMULA No.

D325

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$$k \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{18 \times k^2 - 16 \times k - 1}{k \times (k+1) \times (17 \times k - 16) \times (17 \times k + 1)} = \frac{1}{17}$$

NEW MATHEMATICAL FORMULA DAILY

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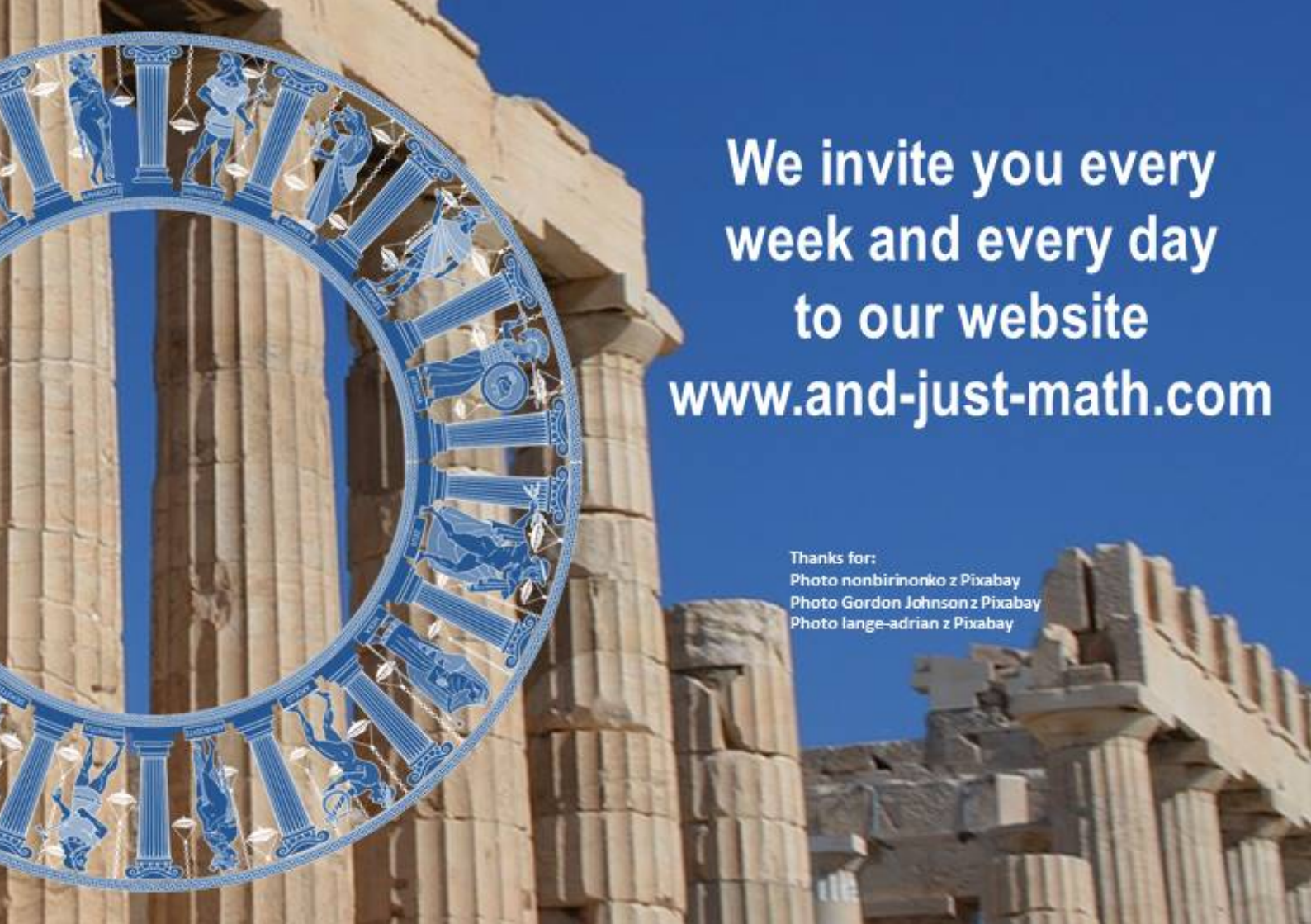
$$\prod_{k=1}^{k=\infty}\left(1-4\times sin^2\left(\frac{3\times\pi}{2\times 5^{k+1}}\right)+3,2\times sin^4\left(\frac{3\times\pi}{2\times 5^{k+1}}\right)\right)=\frac{5\times(\sqrt{5}+1)}{6\times\pi}$$

$$k\in N$$

NEW MATHEMATICAL FORMULA DAILY



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Thanks for:
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