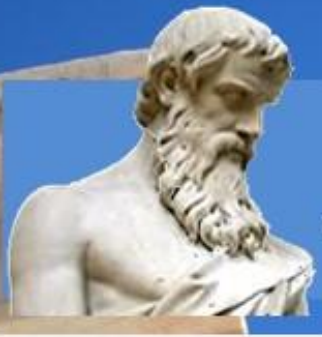

FORMULAS

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

FORMULA No.

W30

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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

FORMULAS

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Euclid

FORMULA No.

D301

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$$k \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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D302

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{4 \times k + 9}{k \times (k+1) \times (2 \times k + 7) \times (2 \times k + 9)} = \frac{1}{9}$$

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$$\sum_{k=1}^{k=\infty} \frac{sin\left(\frac{5 \times \pi}{8 \times 3^{k}}\right)}{cos\left(\frac{5 \times \pi}{8 \times 3^{k-1}}\right)} = -\frac{\sqrt{2}+1}{2} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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Euclid

FORMULA No.

D304

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\,tg\left(\frac{100}{101 \times k^2 + 1899 \times k + 9000}\right) = arc\,tg\left(\frac{1}{10}\right)$$

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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Euclid

FORMULA No.

D305

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\,ctg\left(2 \times \left(1 - \frac{\sqrt{5}}{5}\right) \times k^2 - 2 \times \left(1 - \frac{\sqrt{5}}{5} - \sqrt{5 + 2 \times \sqrt{5}}\right) \times k - \sqrt{25 - 10 \times \sqrt{5}} + 5 - 2 \times \sqrt{5 - 2 \times \sqrt{5} + 2 \times \sqrt{5}}\right) = \frac{\pi}{10}$$

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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Euclid

FORMULA No.

D306

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\,tg\left(\frac{5 \times (\sqrt{25 + 10 \times \sqrt{5}}) \times 2^{k-1}}{(2^{k-1} - 1) \times (2^k - 1) \times \left(25 + 10 \times \sqrt{5}\right) + 25 \times 2^{2 \times k-1}}\right) = \frac{3 \times \pi}{10}$$

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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Euclid

FORMULA No.

D307

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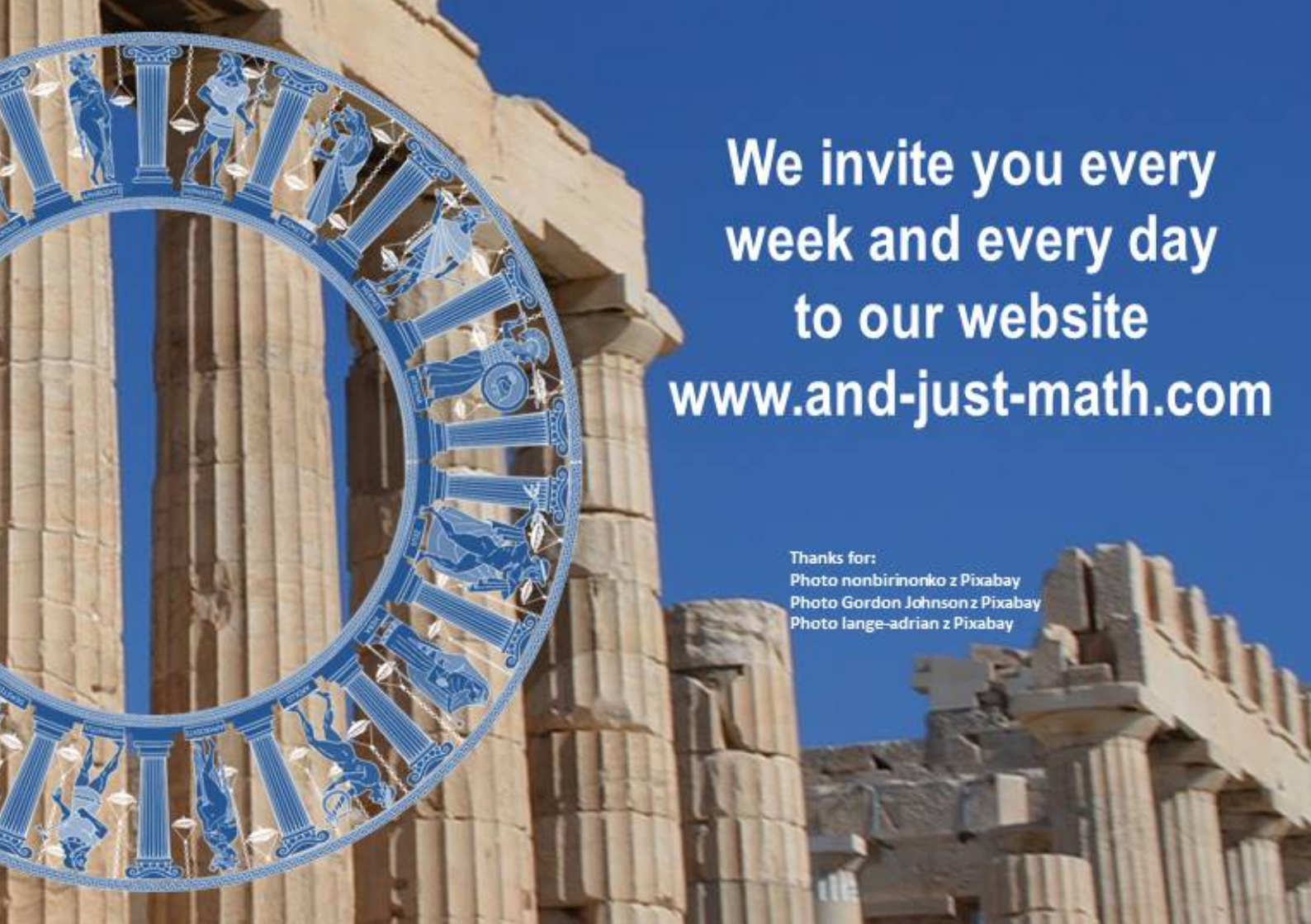
$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\,tg\left(\frac{16}{272 \times k^2 - 264 \times k - 3}\right) = arc\,tg(4)$$

NEW MATHEMATICAL FORMULA DAILY



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Thanks for:
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