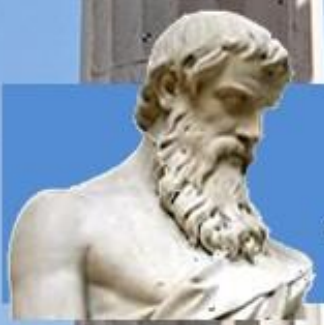

# FORMULAS

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

FORMULA No.

W42

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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

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

FORMULA No.

D421

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$$\sum_{k=1}^{k=\infty} sin\left(\frac{\pi}{3^{k+1}}\right) \times sin\left(\frac{\pi}{2 \times 3^{k+1}}\right) = \frac{2-\sqrt{3}}{4} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

# FORMULAS

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Euclid

FORMULA No.

D422

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$$k \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

# FORMULAS

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FORMULA No.

D423

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$$k \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

# FORMULAS

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Euclid

FORMULA No.

D424

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times cos\left(\frac{5 \times \pi}{4 \times 3^{k+1}}\right) \times cos\left(\frac{5 \times \pi}{8 \times 3^{k+1}}\right) =$$

$$= \frac{\left(\sqrt{2} + 2 \times \sqrt{3} + \sqrt{6} + 4\right) \times \sqrt{8 + 2 \times \sqrt{6} - 4 \times \sqrt{2} - 4 \times \sqrt{3}}}{16} \pm \frac{1}{2}$$

NEW MATHEMATICAL FORMULA DAILY

# FORMULAS

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FORMULA No.

D425

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k^2 + 36 \times k + 163}{(k+8) \times (k+9) \times (k+10) \times (k+11)} = \frac{19}{99}$$

NEW MATHEMATICAL FORMULA DAILY

# FORMULAS

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Euclid

FORMULA No.

D426

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^2 \times (2 \times k^2 - 3)}{(4 \times k^4 + 1) \times (4 \times k^2 - 1)} = 0$$

NEW MATHEMATICAL FORMULA DAILY

# FORMULAS

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

FORMULA No.

D427

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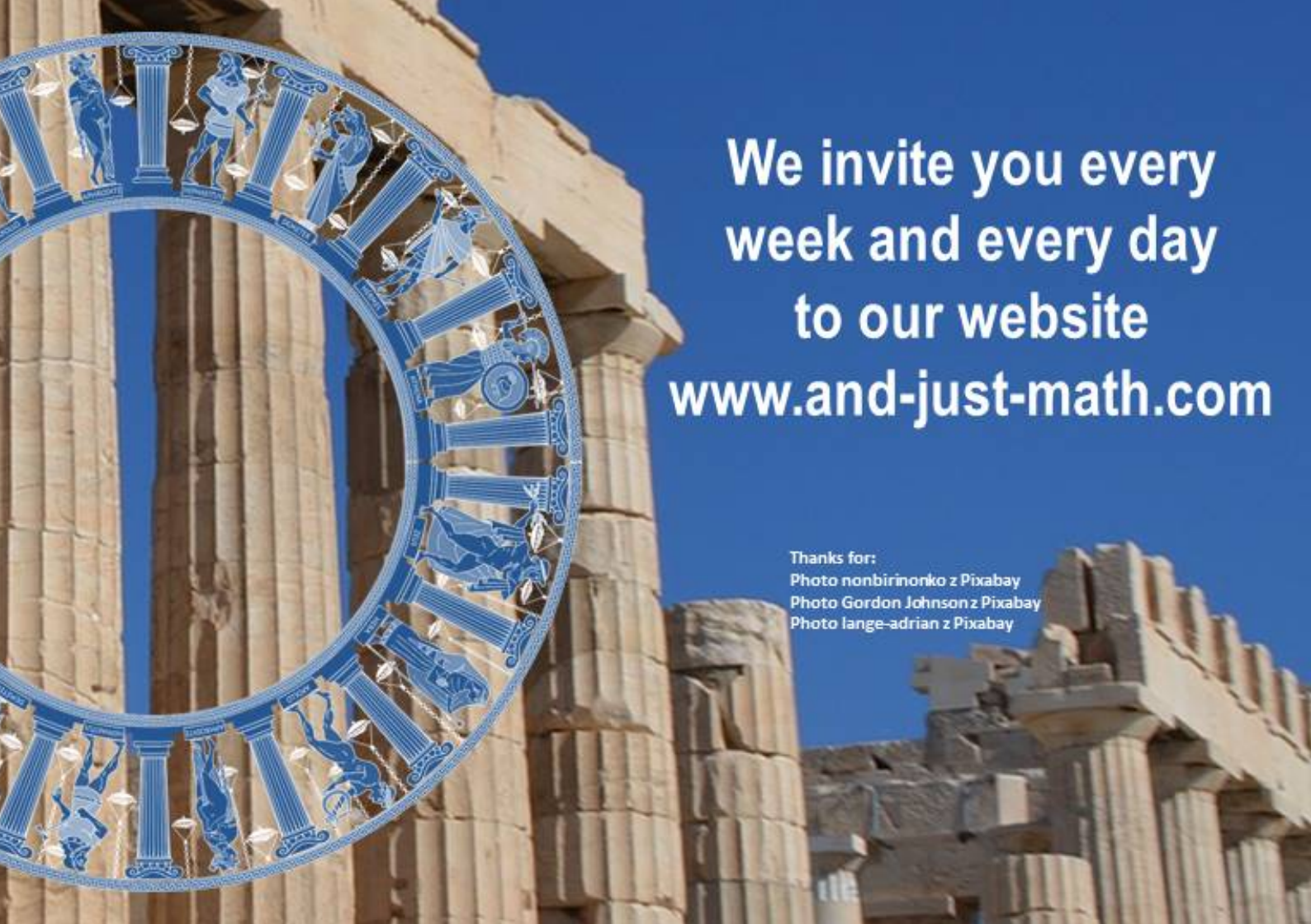
$$\sum_{k=1}^{k=\infty} sin\left(\frac{\pi}{2^{2\times k+4}}\right) \times cos\left(\frac{5\times\pi}{3\times 2^{2\times k+4}}\right) \qquad k \in N$$

$$= \frac{\left(\sqrt{2}+\sqrt{6}-2\right)\times\sqrt{8+2\times\sqrt{6}-4\times\sqrt{2}-4\times\sqrt{3}}}{16}$$

NEW MATHEMATICAL FORMULA DAILY



# We invite you every week and every day to our website www.and-just-math.com

Thanks for:
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