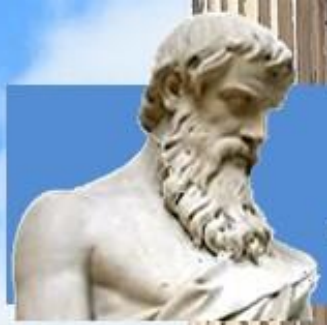

FORMULAS

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

FORMULA No.

W07

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We are not mathematicians, but we love mathematics and create formulas ourselves.

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Hugo Steinhaus

1 WEEK = 7 DAYS = 7 FORMULAS

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FORMULAS

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D071

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$$k \in N$$

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

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

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$$k \in N$$

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

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

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$$\prod_{k=1}^{k=\infty} \frac{\cos\left(\frac{5\times\pi}{3\times 2^{k+1}}\right)}{\cos^2\left(\frac{5\times\pi}{3\times 2^{k+2}}\right)} = \frac{5\times\pi}{12\times\left(2+\sqrt{3}\right)} \qquad k\in N$$

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

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

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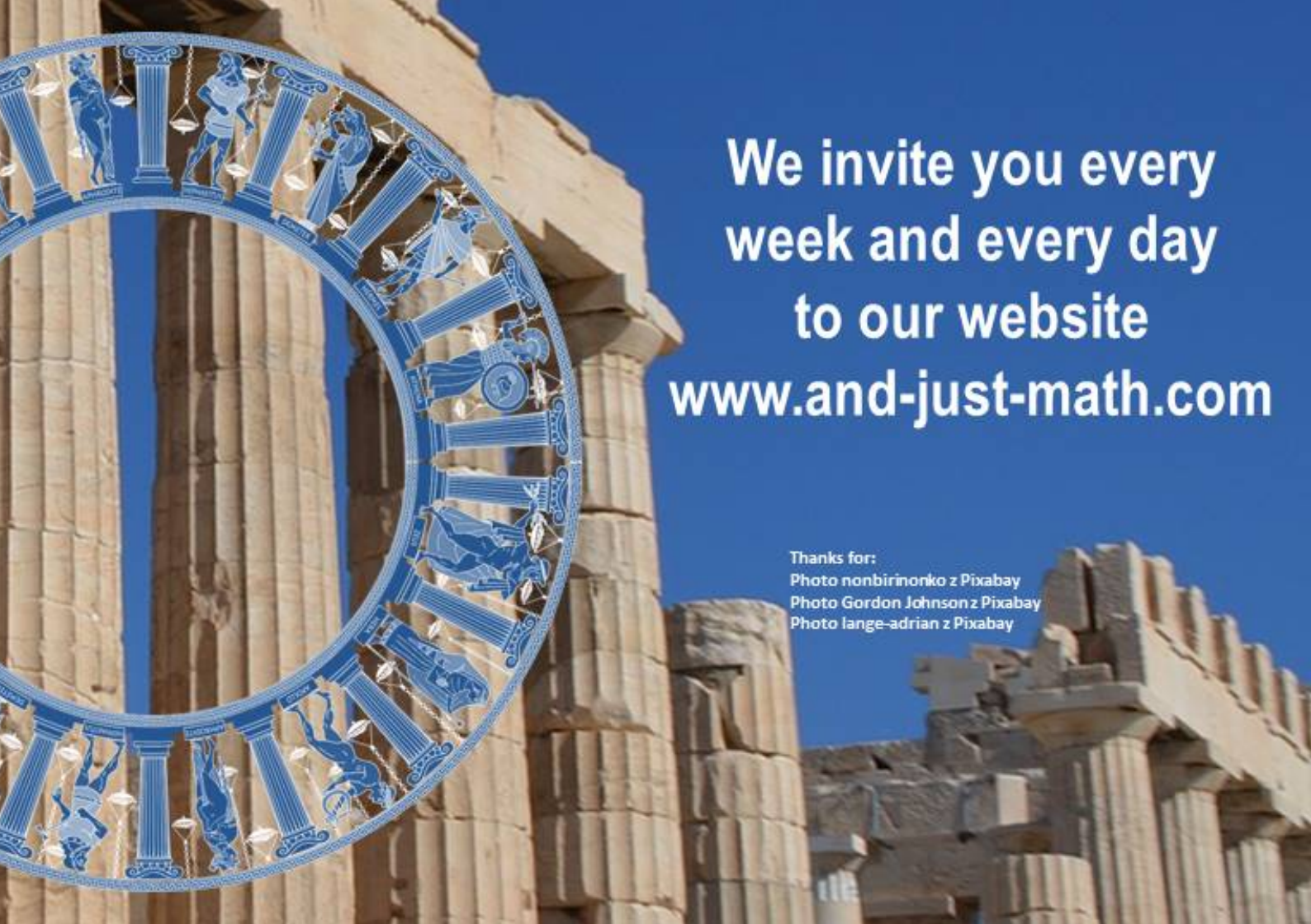

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