FORMULAS

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

'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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{1}{2^k} \times tg\left(\frac{\pi}{3 \times 2^{k-1}}\right) = \frac{9 + 2 \times \sqrt{3} \times \pi}{6 \times \pi}$$

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$$\sum_{k=1}^{k=\infty} arctg \, \frac{3^{k-2} \times 2 \times \sqrt{3}}{1 + 3^{2 \times k - 2}} = \frac{\pi}{3} \quad {}^{k \in N}$$

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$$\prod_{k=1}^{k=\infty} \cos \frac{\pi}{5 \times 2^k} = \frac{5 \times \sqrt{10 - 2 \times \sqrt{5}}}{4 \times \pi} \qquad k \in N$$

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

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times sin\left(\frac{3 \times \pi}{5 \times 2^{k+1}}\right) \times cos\left(\frac{\pi}{5 \times 2^{k+1}}\right) = \frac{\sqrt{10 - 2 \times \sqrt{5}}}{8}$$

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

$$= \frac{\sqrt{5}+1}{8} \pm \frac{1}{2}$$

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week and every day
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