'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

FORMULAS

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$$k \in N$$

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

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times \sqrt{9 \times k^2 + 18 \times k + 10} - (k+1) \times \sqrt{9 \times k^2 + 1} + 1}{k \times (k+1)} =$$

$$= 4 - \sqrt{10}$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{1}{2^k} \times tg\left(\frac{\pi}{3 \times 2^{k+2}}\right) = \frac{12 - (2 + \sqrt{3}) \times \pi}{\pi}$$

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$$\sum_{k=1}^{k=\infty} arc\,tg\left(\frac{(2+\sqrt{3}) \times 2^{k-1}}{(2^{k-1}-1) \times (2^k-1) \times (7+4\times\sqrt{3}) + 2^{2\times k-1}}\right) = \frac{5 \times \pi}{12}$$

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$$k \in N$$

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

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

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