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

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 1}{(9 + \sqrt{77}) \times k^4 + 2 \times (9 + \sqrt{77}) \times k^3 - (5 + \sqrt{77}) \times k^2 - 2 \times (7 + \sqrt{77}) \times k + 7 - \sqrt{77}} = \frac{1}{2}$$

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$$k \in N$$

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

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

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{4 \times k + 7}{k \times (4 \times k^3 + 28 \times k^2 + 59 \times k + 35)} = \frac{1}{7} \qquad k \in N$$

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$$k \in N$$

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

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