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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$$\sum_{k=1}^{k=\infty} \frac{1}{(4 \times k - 3) \times (4 \times k - 1)} = \frac{\pi}{8} \qquad k \in N$$

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$$k \in N$$

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

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$$\sum_{k=1}^{k=\infty} \frac{1}{k^3 \times (k+2)^3} = \frac{21 - 2 \times \pi^2}{32} \qquad k \in N$$

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$$k \in N$$

$$\prod_{k=1}^{k=\infty} \left(1 - 4 \times sin\left(\frac{\pi}{12 \times 5^{k-1}}\right) \times sin\left(\frac{\pi}{4 \times 5^{k-1}}\right) \right) = \frac{\sqrt{6} - \sqrt{2}}{4}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{k^3 \times (k+1)^3} = 10 - \pi^2 \qquad k \in N$$

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

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

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week and every day
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