FORMULAS

'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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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{4 \times k^4 + 16 \times k^3 + 41 \times k^2 + 41 \times k + 9}{(k+2) \times (k+3) \times (4 \times k^2 - 1)^2} = \frac{\pi^2}{8}$$
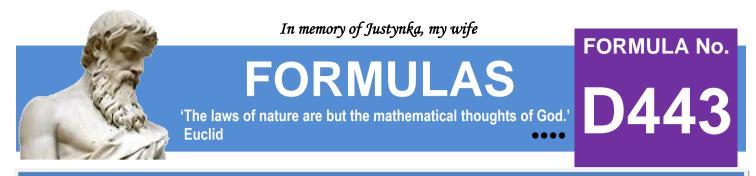
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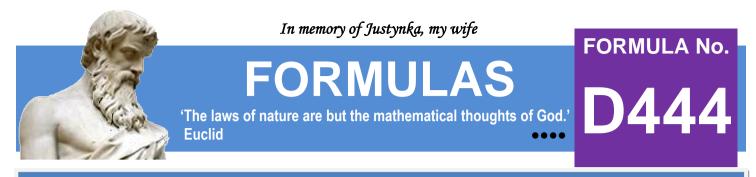Hugo Steinhaus

$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{4 \times k^4 + 36 \times k^3 + 159 \times k^2 + 396 \times k + 400}{(k+2) \times (k+3)^2 \times (k+4)^2 \times (2 \times k + 3) \times (2 \times k + 5)} = \frac{61 - 6 \times \pi^2}{36}$$

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$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 72 \times k^3 + 105 \times k^2 + 46 \times k + 1}{(k+1)^2 \times (k+2)^2 \times (4 \times k - 1) \times (4 \times k + 3)} = \frac{2 \times \pi^2 - 11}{12}$$
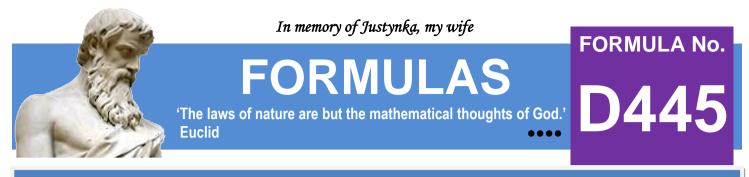
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$$\sum_{k=1}^{k=\infty} \frac{49 \times k^4 + 217 \times k^3 + 291 \times k^2 + 89 \times k - 18}{(k+1)^2 \times (k+2)^2 \times (7 \times k - 2) \times (7 \times k + 5)} = \frac{10 \times \pi^2 - 57}{60}$$
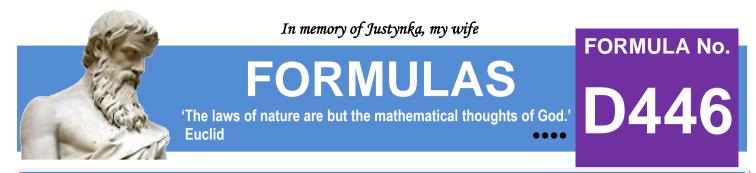
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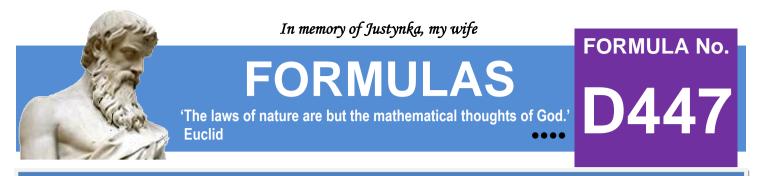Hugo Steinhaus

$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{144 \times k^4 + 96 \times k^3 + 427 \times k^2 + 301 \times k + 48}{(3 \times k + 1) \times (3 \times k + 4) \times (16 \times k^2 - 9) \times (16 \times k^2 - 1)} = \frac{\pi}{8}$$

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$$\sum_{k=1}^{k=\infty} \frac{k^4 + 5 \times k^3 + 11 \times k^2 + 11 \times k + 4}{k \times (k+1)^3 \times (k+2)^2} = \frac{2 \times \pi^2 - 9}{12} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 51 \times k^2 + 47 \times k + 15}{k \times (k+1) \times (4 \times k - 3) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{\pi - 2}{16}$$

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week and every day
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