

*In memory of Justynka, my wife*



# FORMULAS

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



FORMULA No.

**D167**

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We are not mathematicians, but we love mathematics and create formulas ourselves.

'No other science boosts the faith in the strength of the human spirit like mathematics.'  
Hugo Steinhaus

$$\sum_{k=1}^{k=\infty} \frac{p_{k+2}^2 \times \left( p_k^{\frac{1}{p_k}} - 1 \right) - p_{k+1}^2 \times \left( p_{k+1}^{\frac{1}{p_{k+1}}} - 1 \right)}{p_{k+1}^2 \times p_{k+2}^2} = \frac{\sqrt{2} - 1}{9} \quad k \in N$$

$p_k$  ( $k$ -th prime number)

**NEW MATHEMATICAL FORMULA DAILY**