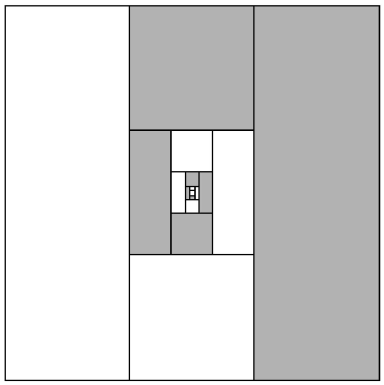
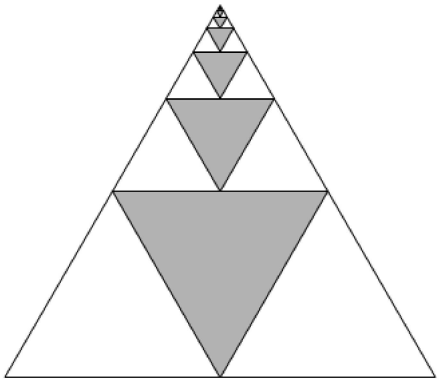
## July 16, 2009

### Proofs Without Words

Filed under: Math — Tags: Math — Tomek @ 2:44 am



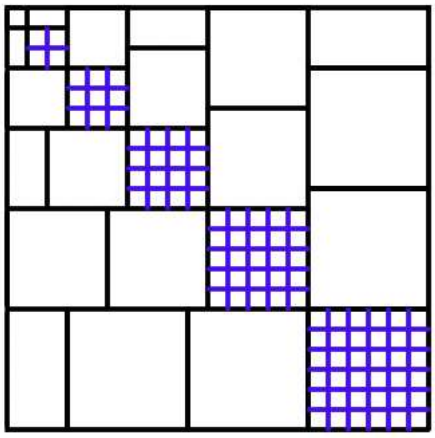
$$\frac{1}{2} = \sum_{i=1}^{\infty} \frac{1}{3^i} = \frac{1}{3} + \frac{1}{3^2} + \frac{1}{3^3} + \frac{1}{3^4} + \frac{1}{3^5} + \cdots$$



$$\frac{1}{3} = \sum_{i=1}^{\infty} \frac{1}{4^i} = \frac{1}{4} + \frac{1}{4^2} + \frac{1}{4^3} + \frac{1}{4^4} + \frac{1}{4^5} \cdots$$

Source

**Edit**:
I found another interesting one.



$1^3+2^3+3^3+\ldots+6^3=(1+2+3+\ldots+6)^2$

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