

The figure below contains information that can be used to explain why the following statement (called Galileo's Ratio) is true:

$$\frac{1}{3} = \frac{1+3}{5+7} = \frac{1+3+5}{7+9+11} = \frac{1+3+5+\dots+(2n-1)}{(2n+1)+(2n+3)+\dots+(2n+2n-1)}.$$

Give a written explanation based on the figure by Alfinio Flores of Arizona State University for the truth of the statement. (CMJ, V. 29, No.4, Sept., 1998)

