

**GM66 L'escargot**

- $h_1 = \sqrt{1^2 + 1^2} = \sqrt{2}$   
 $h_2 = \sqrt{h_1^2 + 1^2} = \sqrt{3}$   
 $h_3 = \sqrt{h_2^2 + 1^2} = \sqrt{4} = 2$   
etc.  
 $h_n = \sqrt{n + 1}$   
Donc:  $h_{15} = \sqrt{15 + 1} = \sqrt{16} = 4$
- $h_{999\,999} = \sqrt{1\,000\,000} = 1000$   
 $h_{1\,000\,000} = \sqrt{1\,000\,001} \cong 1000,0005\dots$   
Donc:  $h_{1\,000\,000} - h_{999\,999} \cong 0,0005\dots < 0,001$