

3  
4  
A  
B  
C  
H

$$\begin{aligned}AB^2 + BC^2 &= AC^2 \\ 3^2 + 4^2 &= AC^2 \\ 25 &= AC^2 \\ AC &= \sqrt{25} \approx 5.000\end{aligned}$$

S

$$\begin{aligned}S &= \frac{AB \times BC}{2} \\ S &= \frac{3 \times 4}{2} \\ S &= 6\end{aligned}$$

$$\frac{S_{\frac{BH \times AC}{2}}}{2}$$

$$\begin{aligned}S &= \frac{BH \times AC}{2} \\ 6 &= \frac{BH \times 5.000}{2} \\ 2 \times 6 &= BH \times 5.000 \\ \frac{2 \times 6}{5.000} &= BH \\ BH &\approx 2.40\end{aligned}$$

Partie  
A  
Pre-  
mière  
mod-  
éli-  
sa-  
tion

$$\begin{aligned}&\bullet 90 \\&\bullet 130 \\&300 \\&n \\&(u_n) \\&u_1 = \\&3 \\&n1, u_{n+1} = \\&0.9u_n + \\&1.3 \\&u_2 \\&u_3 = \\&u_2 \times \\&0.9 + \\&u_1 + \\&1.3 = \\&0.9 \times \\&3 + \\&1.3 = \\&4 \\&u_3 = \\&0.9 \times \\&u_2 + \\&1.3 = \\&0.9 \times \\&4 + \\&1.3 = \\&4.9 \\&400 \\&490 \\&n1 \\&u_n = 13 - 1009 \times 0.9^n.\end{aligned}$$

Initialisation  
u\_n =  
13 -  
1009 x  
0.9^n  
n1