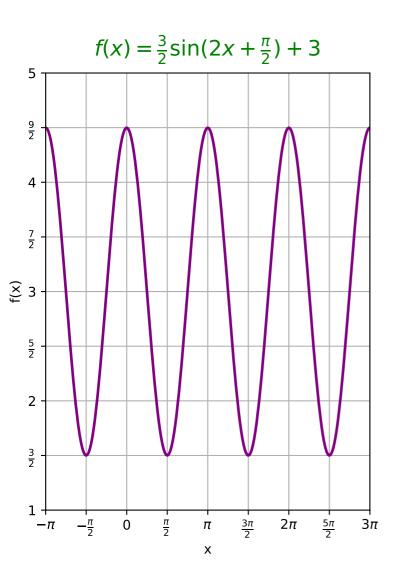
Determining the parameters of a sinusoidal function



Explanation

The sinusoïdal function is $f(x) = a \sin(bx + c) + d$ where:

- T is the period given by the x-difference between two consecutive peaks
- \Rightarrow a is the amplitude $a = \frac{y_{max} y_{min}}{2}$
- \Rightarrow b is the frequency : $b = \frac{2\pi}{T}$ (radians per unit)
- \Rightarrow c is the phase shift : $(-\frac{c}{b})$ is the horizontal shift
- \Rightarrow d is the vertical shift $d = \frac{y_{max} + y_{min}}{2}$