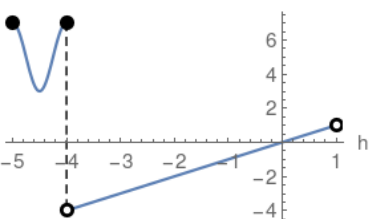


Piecewise Functions

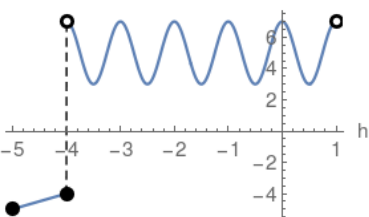
To define piecewise means that the function values and graphs are defined over a particular and generally limited section of the h-axis

$$\begin{cases} 2 \cos(2\pi h) + 5 & -5 \leq h \leq -4 \\ h & -4 < h < 1 \end{cases}$$



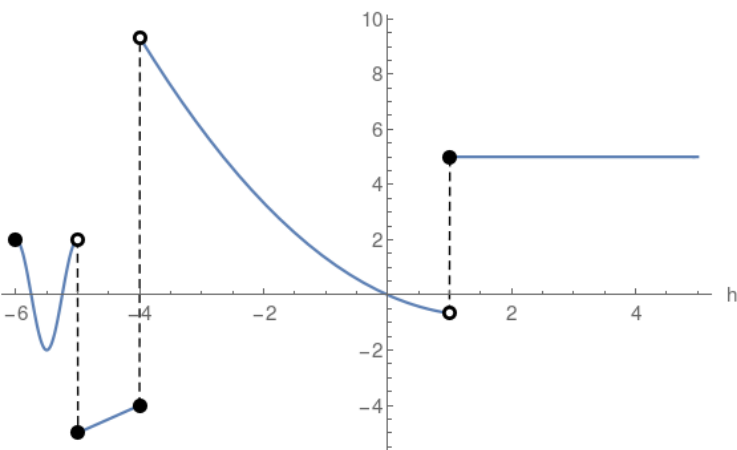
where two functions are juxtaposed together, and for that matter could be pieced differently i.e. swapped:

$$\begin{cases} h & -5 \leq h \leq -4 \\ 2 \cos(2\pi h) + 5 & -4 < h < 1 \end{cases}$$



More and more complicated functions could be juxtaposed together:

$$\begin{cases} 2 \cos(2\pi h) & -6 \leq h < -5 \\ h & -5 \leq h \leq -4 \\ \frac{h^2}{3} - h & -4 < h < 1 \\ 5 & h \geq 1 \end{cases}$$



Solid disk refers to inclusion of the point or any of $\leq \geq =$ operators



Hollow disk refers to the exclusion or any of the $< >$ operators

