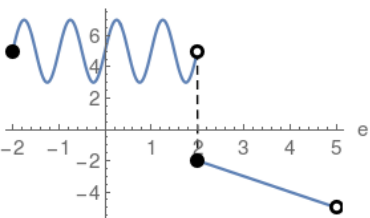


Piecewise Functions

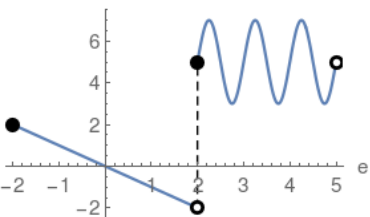
To define piecewise means that the function values and graphs are defined over a particular and generally limited section of the e-axis

$$\begin{cases} 2 \sin(2 \pi e) + 5 & -2 \leq e < 2 \\ -e & 2 \leq e < 5 \end{cases}$$



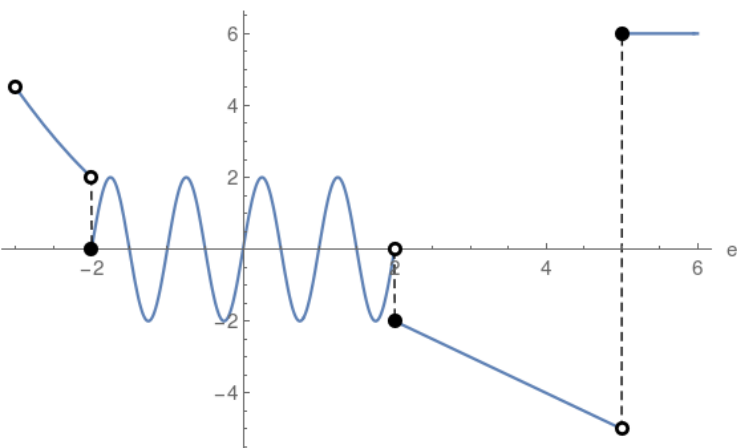
where two functions are placed together, and for that matter could be pieced differently i.e. swapped:

$$\begin{cases} -e & -2 \leq e < 2 \\ 2 \sin(2 \pi e) + 5 & 2 \leq e < 5 \end{cases}$$



More and more complicated functions could be placed together:

$$\begin{cases} \frac{e^2}{2} & -3 < e < -2 \\ 2 \sin(2 \pi e) & -2 \leq e < 2 \\ -e & 2 \leq e < 5 \\ 6 & e \geq 5 \end{cases}$$



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

