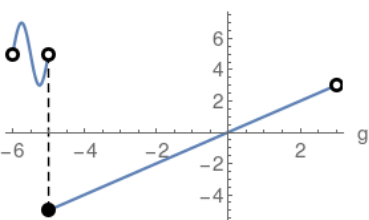


Piecewise Functions

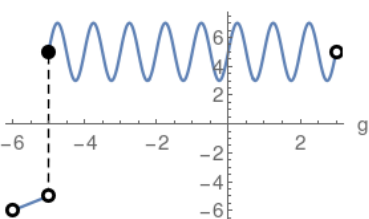
To define piecewise means that the function values and graphs are defined over a particular and generally limited section of the g-axis

$$\begin{cases} 2 \sin(2 \pi g) + 5 & -6 < g < -5 \\ g & -5 \leq g < 3 \end{cases}$$



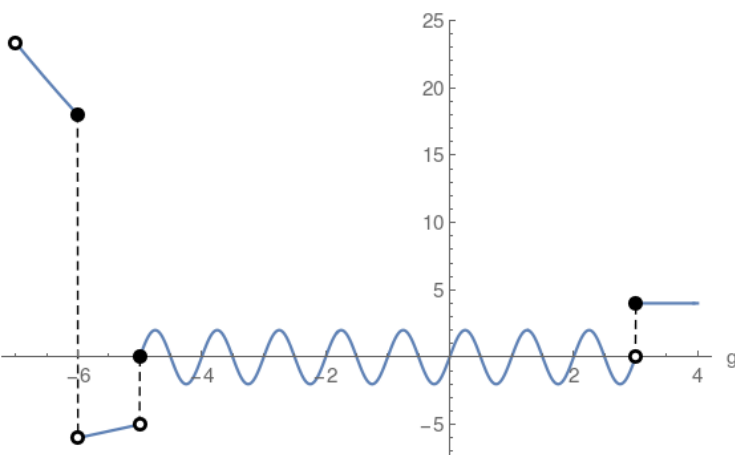
where two functions are placed together, and for that matter could be pieced differently i.e. swapped:

$$\begin{cases} g & -6 < g < -5 \\ 2 \sin(2 \pi g) + 5 & -5 \leq g < 3 \end{cases}$$



More and more complicated functions could be placed together:

$$\begin{cases} \frac{g^2}{3} - g & -7 < g \leq -6 \\ g & -6 < g < -5 \\ 2 \sin(2 \pi g) & -5 \leq g < 3 \\ 4 & g \geq 3 \end{cases}$$



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

