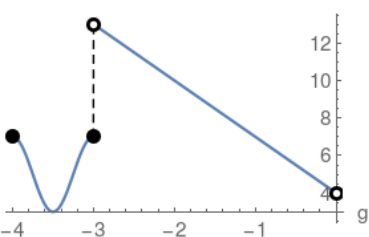


Piecewise Functions

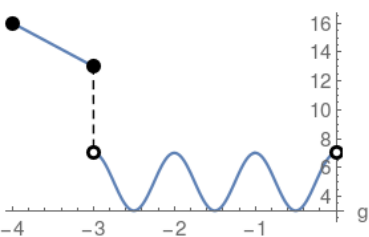
To define piecewise means that the function values and graphs are defined over a particular and generally limited section of the g-axis

$$\begin{cases} 2 \cos(2 \pi g) + 5 & -4 \leq g \leq -3 \\ 4 - 3g & -3 < g < 0 \end{cases}$$



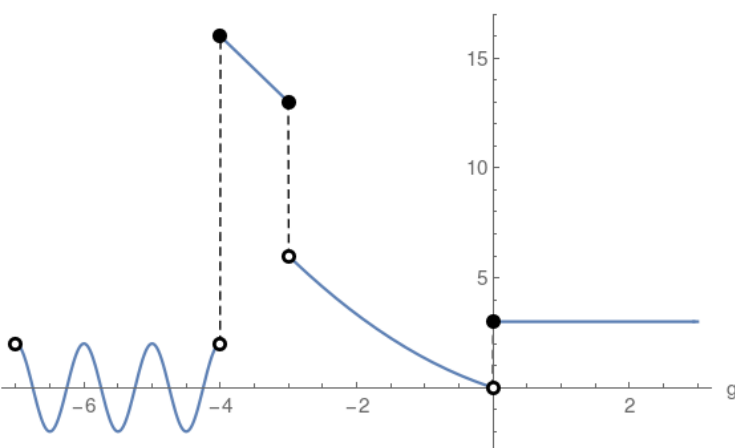
where two functions are stitched together, and for that matter could be pieced differently i.e. swapped:

$$\begin{cases} 4 - 3g & -4 \leq g \leq -3 \\ 2 \cos(2 \pi g) + 5 & -3 < g < 0 \end{cases}$$



More and more complicated functions could be stitched together:

$$\begin{cases} 2 \cos(2 \pi g) & -7 < g < -4 \\ 4 - 3g & -4 \leq g \leq -3 \\ \frac{g^2}{3} - g & -3 < g < 0 \\ 3 & g \geq 0 \end{cases}$$



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

