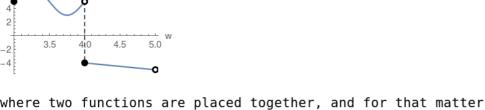
Piecewise Functions

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

$$\begin{bmatrix} 2 \sin(2\pi w) + 5 & 3 \le w < 4 \\ -w & 4 \le w < 5 \end{bmatrix}$$



 $[2\sin(2\pi w) + 5 \ 4 \le w < 5]$

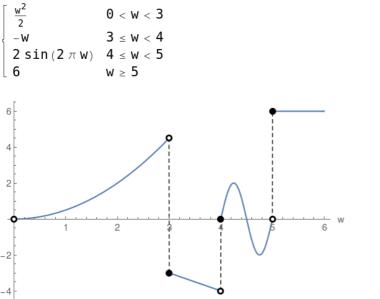
 $\lceil -W$

6

could be pieced differently i.e. swapped:

 $3 \leq w < 4$

More and more complicated functions could be placed together:



Solid disk corresponds to inclusion of the point or any of « » = operators

■

Hollow disk corresponds to the exclusion or any of the < > operators