Piecewise Functions

 $\lceil 2 \cos (2 \pi w) + 5 - 6 < w \le -3$

 $2 \cos(2 \pi w) + 5 - 3 < w \le -1$

 $\lceil 2 \cos(2 \pi w) - 7 < w \le -6 \rceil$

 $-6 < w \le -3$

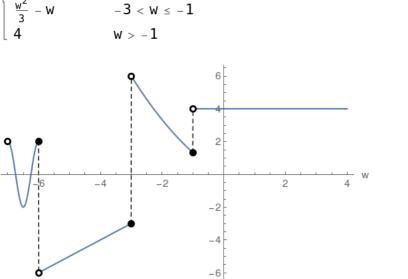
W

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

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

 $-6 < w \le -3$

More and more complicated functions could be placed together:



Solid disk refers to inclusion of the point or any of $\leqslant \geqslant =$ operators

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