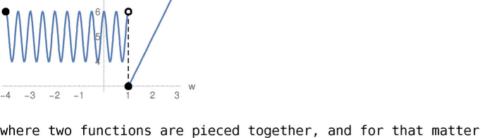
Piecewise Functions

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

$$\begin{cases} \cos(4\pi w) + 5 & -4 \le w < 1 \\ 2w + 1 & 1 \le w < 3 \end{cases}$$



[2w+1]

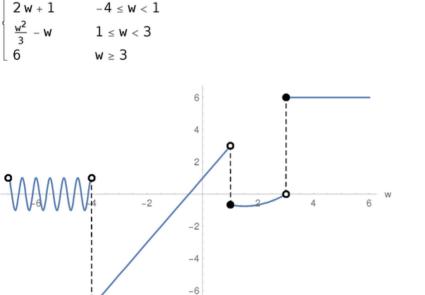
could be pieced differently i.e. swapped:

$$\begin{cases} \cos(4\pi w) + 5 & 1 \le w < 3 \end{cases}$$

-6

 $-4 \le w < 1$

 $\lceil \cos(4\pi w) - 7 < w < -4 \rceil$



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

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