Piecewise Functions

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

 $\lceil \; cos \, (4 \, \pi \, t) \; + 5 \quad -6 < t \leq -4$

 $-4 < t \le -3$

 $-6 < t \le -4$

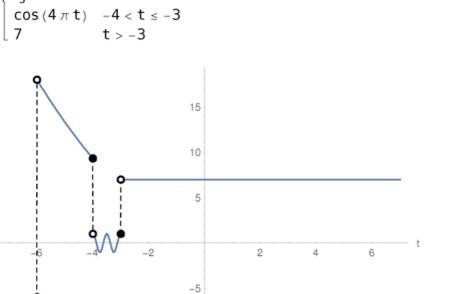
where two functions are glued together, and for that matter could be pieced differently i.e. swapped:

 $-7 \le t \le -6$

 $-6 < t \le -4$

 $\cos(4\pi t) + 5 - 4 < t \le -3$

More and more complicated functions could be glued 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