Piecewise Functions

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

$$\begin{cases} 2\cos(2\pi p) + 5 & -1$$

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

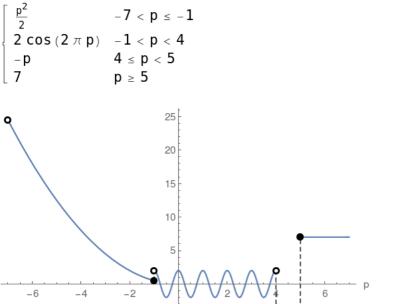
-1

-7

 $2\cos(2\pi p) + 5 \quad 4 \leq p < 5$

6

More and more complicated functions could be glued together:



-5

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