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

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

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

-2

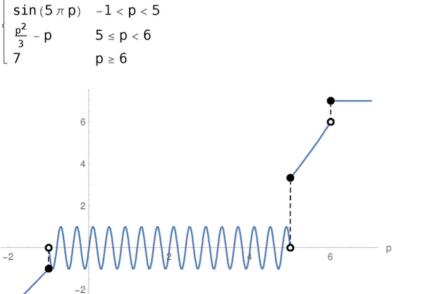
-1

 $\lceil 2p + 1 \rceil$

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 $|\sin(5\pi p) + 5 \le p < 6|$

More and more complicated functions could be juxtaposed together:



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