Piecewise Functions

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

 $\int 2 \sin(2 \pi v) + 5 - 5 < v \le 1$

1 < v < 2

 $-5 < v \le 1$

2 v + 1

 $\lceil 2 v + 1 \rceil$

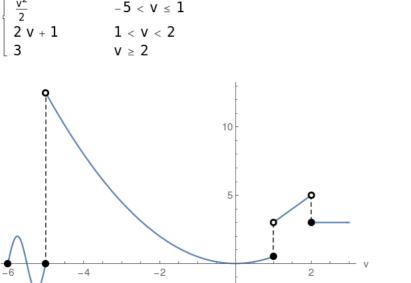
 v^2

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

 $\int 2 \sin(2\pi v) -6 \le v \le -5$

 $[2 \sin(2\pi v) + 5 \ 1 < v < 2]$

More and more complicated functions could be placed together:



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