Piecewise Functions

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

 $\int \sin(5\pi f) + 5 - 5 < f \le -3$

-3 < f < -2

 $-5 < f \le -3$

[4 - 3 f

[4-3f

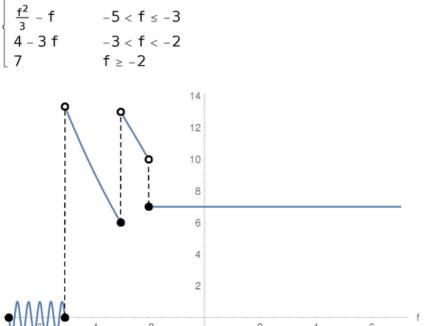
where two functions are juxtaposed together, and for that matter could be pieced differently i.e. swapped:

$$\sin(5\pi f) + 5 - 3 < f < -2$$

-4.5 -4.0 -3.5 -3.0 -2.5 -2.0

 $\int \sin(5\pi f) -7 \le f \le -5$

More and more complicated functions could be juxtaposed 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