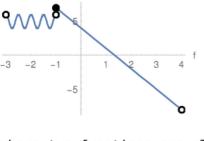
Piecewise Functions

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

section of the f-axis
$$\begin{bmatrix} \cos{(4\,\pi\,f)} \,+\, 5 & -3 < f < -1 \\ 4 - 3\,f & -1 \le f < 4 \end{bmatrix}$$



「4 – 3 f

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

 $\cos(4\pi f) + 5 - 1 \le f < 4$

 $\int \cos(4\pi f) -4 \le f \le -3$

-3 < f < -1

-3 < f < -1

More and more complicated functions could be placed together:

$$\begin{bmatrix}
4-3f & -1 \le f < 4 \\
7 & f \ge 4
\end{bmatrix}$$

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