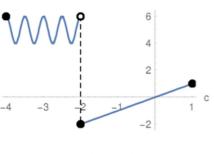
Piecewise Functions

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

section of the c-axis
$$\begin{bmatrix} \cos{(4\pi\,c)} + 5 & -4 \le c < -2 \\ c & -2 \le c \le 1 \end{bmatrix}$$

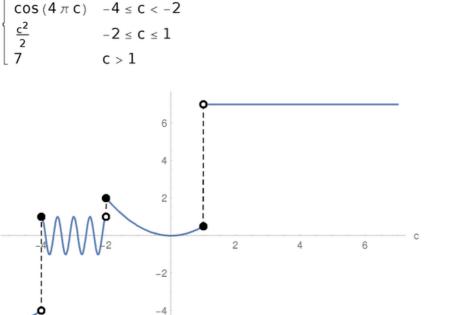


where two functions are pieced together, and for that matter could be pieced differently i.e. swapped:

 $-5 \le c < -4$

 $\left[\begin{array}{cc} cos\left(4\pi\,c\right) \,+5 & -2 \leq c \leq 1 \end{array}\right.$

More and more complicated functions could be pieced 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