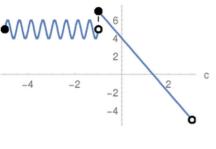
Piecewise Functions

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

$$\begin{cases}
\sin(4\pi c) + 5 & -5 \le c < -1 \\
4 - 3c & -1 \le c < 3
\end{cases}$$



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

 $\sin(4\pi c) + 5 - 1 \le c < 3$

 $-5 \le c < -1$

「4-3c

「4 – 3 c

-6

 c^2

 $-7 \leq c < -5$

 $-5\,\leq\,c\,<\,-1$

More and more complicated functions could be glued together:

$$\sin(4\pi c) -1 \le c < 3$$

$$4 \qquad c \ge 3$$

$$25$$

$$10$$

5

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