Piecewise Functions

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

$$-d \qquad 0 \le d \le 1$$

$$-3 \qquad -2 \qquad -1 \qquad -1$$

 $\lceil \sin(4\pi d) + 5 - 3 \le d < 0 \rceil$

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

 $sin\left(4\pi\,d\right)\quad -3\leq d<0$

-4 < d < -3

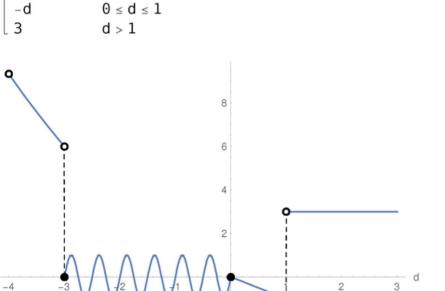
 $\left[\begin{array}{cc} sin(4\pi d) + 5 & 0 \le d \le 1 \end{array}\right.$

 $-3 \le d < 0$

「 −d

 $\int \frac{d^2}{3} - d$

More and more complicated functions could be stitched together:



Solid disk refers to inclusion of the point or any of « » = operators

Hollow disk refers to the exclusion or any of the < > operators