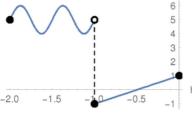
## Piecewise Functions

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



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

$$\begin{vmatrix} \sin(4\pi h) + 5 - 1 \le h \le 0 \end{vmatrix}$$

-7 < h < -2

 $-2 \leq h < -1$ 

 $-2 \le h < -1$ 

∫ 2 h + 1

[ <u>h</u><sup>2</sup>

2h + 1

-6

More and more complicated functions could be juxtaposed together:

Solid disk corresponds to inclusion of the point or any of  $\leq > =$  operators

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