## Piecewise Functions

 $[2 \sin(2 \pi e) + 5 - 5 \le e < -4]$ 

-4

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

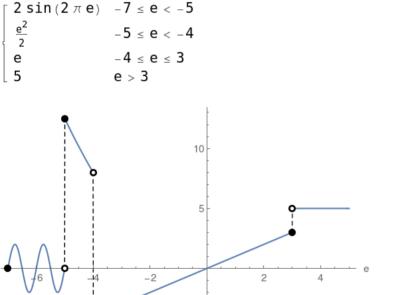
$$-4 \le e \le 3$$

 $-5 \le e < -4$ 

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

 $2 \sin(2 \pi e) + 5 - 4 \le e \le 3$ 

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