## Piecewise Functions

 $-4\,<\,d\,\leq\,-3$ 

 $-5 \, \leq \, d \, \leq \, -4$ 

 $-4\,<\,d\,\leq\,-3$ 

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

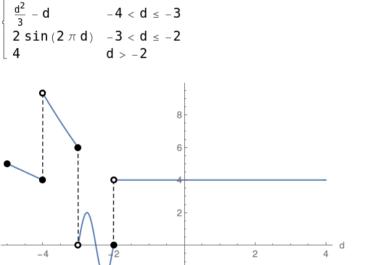
where two functions are juxtaposed together, and for that matter could be pieced differently i.e. swapped:

-3.0

「 − d

 $\lceil \, 2 \, sin \, (2 \, \pi \, d) \, + 5 \, -4 < d \leq -3$ 

More and more complicated functions could be juxtaposed together:



-2

Solid disk corresponds to inclusion of the point or any of  $\leqslant \geqslant =$  operators

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