Piecewise Functions

 $[2 \sin(2 \pi b) + 5 - 5 \le b \le -3]$

 $2 \sin(2 \pi b) + 5 - 3 < b < -1$

-2

∫ b b²

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

 $-5\,\leq\,b\,\leq\,-3$

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

More and more complicated functions could be juxtaposed together:

-7 < b < -5

 $-5 \le b \le -3$

Solid disk refers to inclusion of the point or any of < > = operators

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