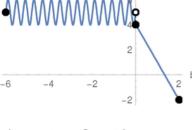
Piecewise Functions

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



[4-3b

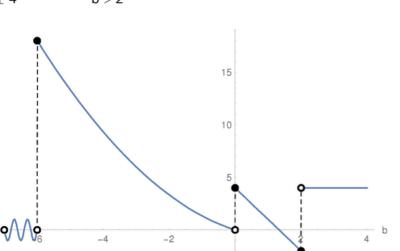
where two functions are juxtaposed together, and for that matter could be pieced differently i.e. swapped:

 $[\sin(5\pi b) + 5 \ 0 \le b \le 2]$

 $-6 \le b < 0$

More and more complicated functions could be juxtaposed together:

$$\begin{cases} \sin(5\pi b) & -7 < b < -6 \\ \frac{b^2}{3} - b & -6 \le b < 0 \\ 4 - 3b & 0 \le b \le 2 \\ 4 & b > 2 \end{cases}$$



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