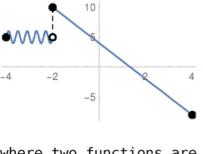
Piecewise Functions

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



[4-3k

「4 – 3 k

 $\frac{k^2}{3}$ – k

-6

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

 $\sin(5\pi k)$ $-2 \le k \le 4$

-6 < k < -4

 $-4 \le k < -2$

 $\begin{cases} \sin(5\pi k) + 5 - 2 \le k \le 4 \end{cases}$

 $-4 \le k < -2$

More and more complicated functions could be juxtaposed together:

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

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