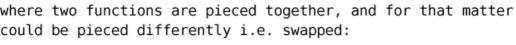
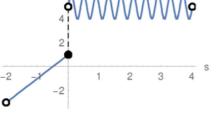
Piecewise Functions

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

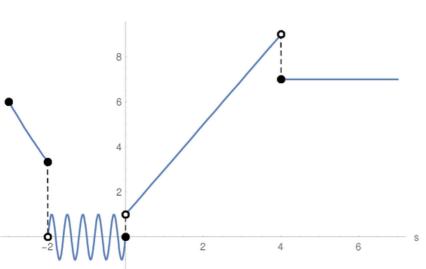
 $\lceil \sin(5\pi s) + 5 - 2 < s \le 0$



$$\left\{ \begin{array}{ll} 2 \; s \; + \; 1 & -2 < s \; \leq \; 0 \\ sin \, (5 \; \pi \; s) \; + \; 5 & 0 < s \; < \; 4 \end{array} \right.$$



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