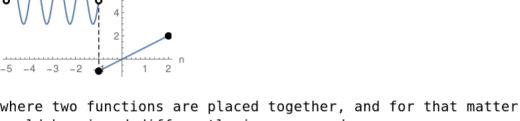
Piecewise Functions

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

$$\begin{bmatrix}
2 \sin (2 \pi n) + 5 & -5 < n < -1 \\
n & -1 \le n \le 2
\end{bmatrix}$$



could be pieced differently i.e. swapped: $\lceil n \qquad \qquad -5 < n < -1$

 $\lceil 2 \sin(2 \pi n) - 6 \le n \le -5 \rceil$

 $2 \sin(2\pi n) + 5 - 1 \le n \le 2$

More and more complicated functions could be placed 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