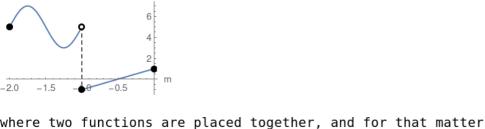
Piecewise Functions

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

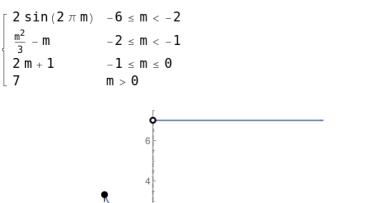
$$\begin{bmatrix} 2 \sin (2 \pi m) + 5 & -2 \le m < -1 \\ 2 m + 1 & -1 \le m \le 0 \end{bmatrix}$$



could be pieced differently i.e. swapped:

$$\begin{bmatrix} 2 & m + 1 & -2 \le m < -1 \\ 2 & sin(2 \pi m) + 5 & -1 \le m \le 0 \end{bmatrix}$$

More and more complicated functions could be placed together:



Solid disk corresponds to inclusion of the point or any of « » = operators

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