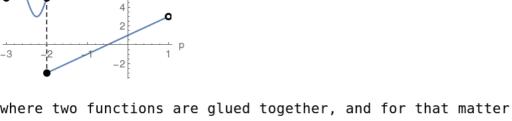
## Piecewise Functions

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

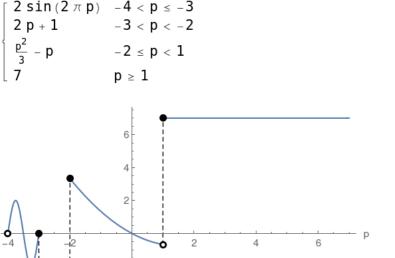
$$\begin{bmatrix}
2 \sin (2 \pi p) + 5 & -3$$



-2

 $\ \ \, \left[ \ \, 2\,\,sin\,(2\,\pi\,p) \,\,+\,5 \,\,\, -2\,\leq\,p\,<\,1 \right.$ 

More and more complicated functions could be glued 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