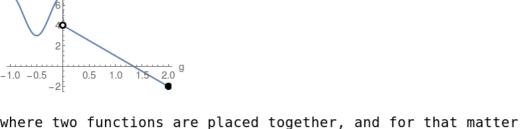
## Piecewise Functions

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

$$\begin{bmatrix} 2 \cos (2 \pi g) + 5 & -1 < g \le 0 \\ 4 - 3 g & 0 < g \le 2 \end{bmatrix}$$



could be pieced differently i.e. swapped:

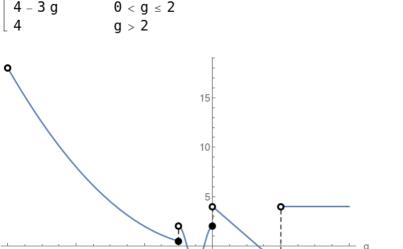
 $2\cos(2\pi g) - 1 < g \le 0$ 

 $\ \ \, \left[ \ \, 2\,\,cos\,(2\,\pi\,g) \,\,+\,5 \,\,\, 0\,<\,g\,\leq\,2 \,\, \right.$ 

 $-1 < g \le 0$ 

 $\sqrt{4-3}$  g

$$\int \frac{g^2}{2} -6 < g \le -1$$



Solid disk refers to inclusion of the point or any of  $\leq$   $\geq$  = operators

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