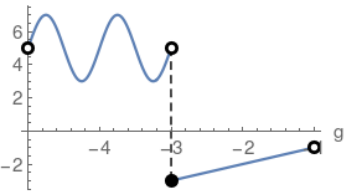
Piecewise Functions

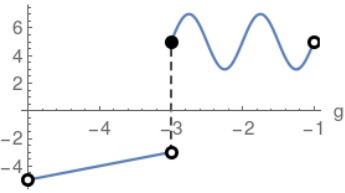
To define piecewise means that the function values and graphs are defined over a particular and generally limited section of the g-axis

$$\begin{cases} 2\sin(2\pi g)+5 & -5 < g < -3 \\ g & -3 \le g < -1 \end{cases}$$



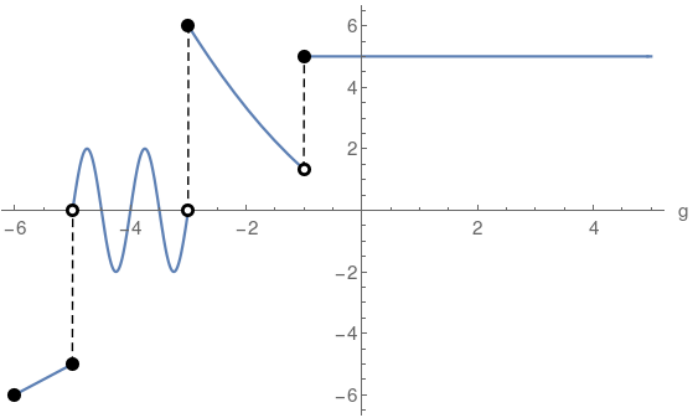
where two functions are stitched together, and for that matter could be pieced differently i.e. swapped:

$$\begin{cases} g & -5 < g < -3 \\ 2\sin(2\pi g)+5 & -3 \le g < -1 \end{cases}$$



More and more complicated functions could be stitched together:

$$\begin{cases} g & -6 \le g \le -5 \\ 2\sin(2\pi g) & -5 < g < -3 \\ \frac{g^2}{3} - g & -3 \le g < -1 \\ 5 & g \ge -1 \end{cases}$$



Solid disk corresponds to inclusion of the point or any of ⩽ ⩾ = operators

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

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