Piecewise Functions

Conventions:

corresponds to inclusion of the point or any of $\leqslant$ $\geqslant$ $=$ operators

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corresponds to the exclusion or any of the $<$ $>$ operators

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Example 1.

$$\begin{cases} 2\,g + 1 & -5 < g \leq -2 \\ -2\,g - 1 & -2 < g \leq 3 \end{cases}$$