Piecewise Functions

Conventions:

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

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

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Example 1.

$$\begin{cases} 2\,g + 1 & -1 \leq g < 1 \\ -2\,g - 1 & 1 \leq g < 4 \end{cases}$$