Piecewise Functions

Conventions:

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

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

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Example 1.

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