Piecewise Functions

Conventions:

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

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

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Example 1.

$$\begin{cases} 2\,u + 1 & -5 < u \leq 0 \\ -2\,u - 1 & 0 < u \leq 1 \end{cases}$$