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.

$$\begin{cases} -k & -1 < k \leq 0 \\ k & 0 < k \leq 4 \end{cases}$$