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.

$$\begin{cases} 4 - 3u & -1 \leq u < 4 \\ 3u - 4 & 4 \leq u < 5 \end{cases}$$