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.

$$\begin{cases} 4 - 3\,q & 0 < q \leq 1 \\ 3\,q - 4 & 1 < q \leq 4 \end{cases}$$