Piecewise Functions

Conventions:

Solid disk corresponds to inclusion of the point or any of ≤ ≥ = operators

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

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Example 1.

$$\begin{cases} 4 - 3x & 0 < x \le 4 \\ 3x - 4 & 4 < x \le 5 \end{cases}$$