Piecewise Functions

Conventions:

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

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

Example 1.

$$\left[\begin{array}{ccc} -b & -4 < b \leq 5 \\ b & 5 < b \leq 6 \end{array} \right.$$