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**(a)** In this question you must show detailed reasoning.

Solve the inequality  $|x - 2| \leq |2x - 6|$ .

**[4]**

**(b)** Give full details of a sequence of two transformations needed to transform the graph of  $y = |x - 2|$  to the graph of  $y = |2x - 6|$ .

**[3]**