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Two compounds, A and B, with the molecular formula $C_7H_{13}Br$ are chiral and are diastereomers of each other. Treatment of A and B with $C_2H_5O\Theta$ produces two alkenes, C and D, with the molecular formula C_7H_{12} . Compound C is chiral but D is not chiral. Treatment of both C and D with H_2/Pd gives the compound methyl cyclohexane.

Give structures for A, B, C and D consistent with this data.

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