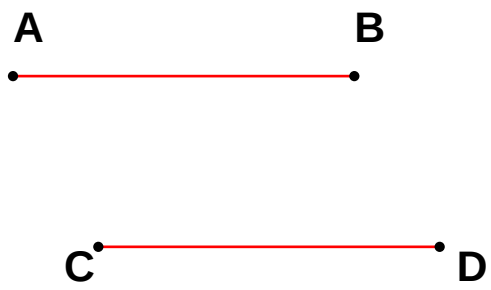
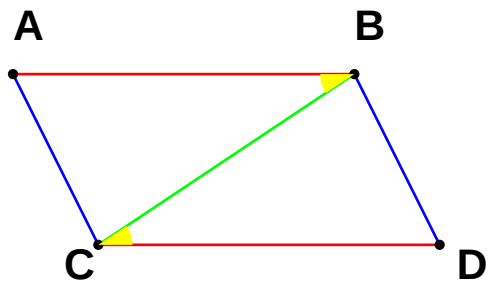
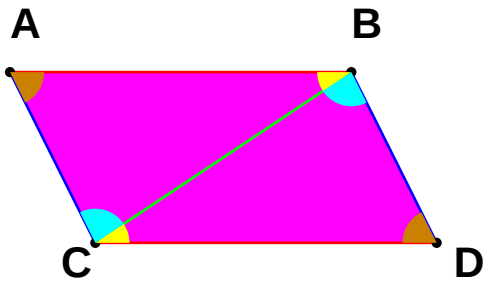



**AB and CD are equal and parallel lines**



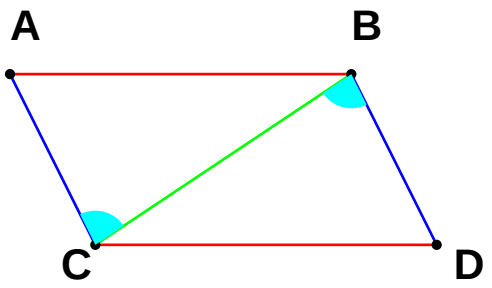

**Connect AC, BD and BC.**

**Since AB is parallel to CD, alternate angles ABC and BCD equal.**




**Therefore AC equals DB**

**Then, triangle ABC equals the triangle DCB**




**Since BC falls on AC and BD makes the alternate angles ACB and DBC equal to one another, therefore AC is parallel to BD.**