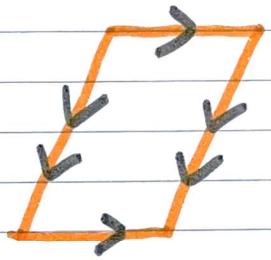
Lesson 1-9 → Constructing Parallelograms with Rotations

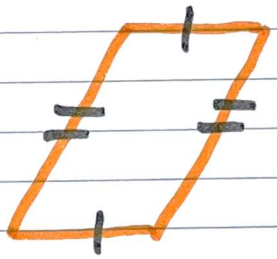
A parallelogram has

→ 2 sets of parallel sides

→ 2 sets of equal side lengths

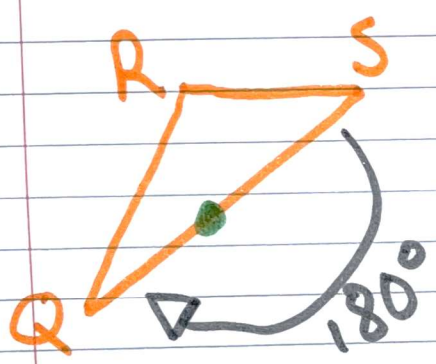


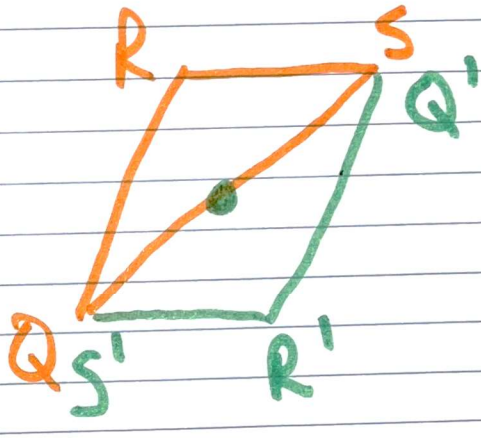
parallel sides

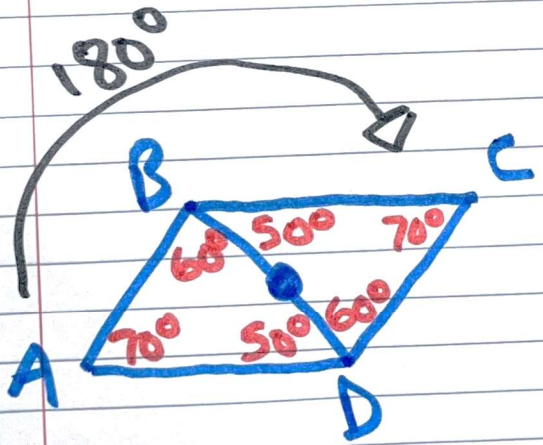


Equal side lengths

You can make a parallelogram by taking any triangle and rotating it 180° around a side's midpoint







$ABD \cong CDB$

70° 60° 50° 70° 60° 50°