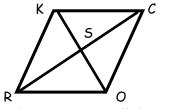
Geometry/Trig 2)
5-2 Homework	

Name _____ Date ____

From the given information, state the definition or theorem that allows you to claim quadrilateral ROCK is a parallelogram.



1) $OR \cong CK$, $OC \cong RK$

If _____, then it is a parallelogram.

2) $OR \cong CK$, $OR \mid \mid CK$

If _____, then it is a parallelogram.

3) KS = OS, CS = RS

If _____, then it is a parallelogram.

4) $\angle KCO \cong \angle ORK, \angle COR \cong \angle RKC$

If _____, then it is a parallelogram.

Complete the statements with always, sometimes or never.

- 5) The diagonals of a quadrilateral ______ bisect each other.
- 6) If the measures of two angles of a quadrilateral are equal, then the quadrilateral is _____ a parallelogram.
- 7) If one pair of opposite sides of a quadrilateral is congruent and parallel, then the quadrilateral is ____a parallelogram.
- 8) To prove a quadrilateral is a parallelogram, it is _____ enough to show that one pair of opposite sides is parallel.
- 9) Prove PART is a parallelogram by proving both pairs of opposite sides are congruent. This proof will only take you 3 steps.

Given: $\triangle RTP \cong \triangle PAR$

Prove: PART is a parallelogram

Statements Reasons