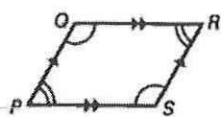


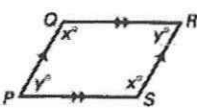
6.3 Showing Quadrilaterals are Parallelograms

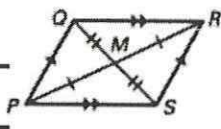
Objective : Show that a quadrilateral is a parallelogram

Theorems:

If -  opposite sides are congruent

-  **OR**
opposite angles are congruent

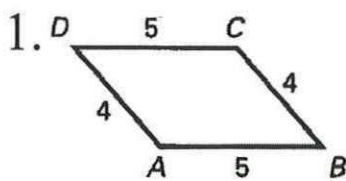
-  **OR**
consecutive angles are supplementary

-  **OR**
diagonals bisect

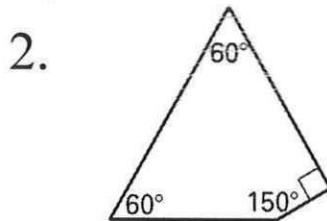
THEN the quadrilateral is a parallelogram

Examples:

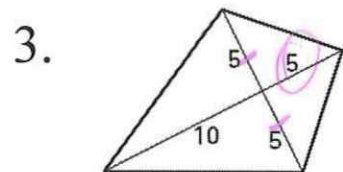
Tell whether the quadrilateral is a parallelogram. Explain.



Yes it is a parallelogram.
Opp sides are \cong

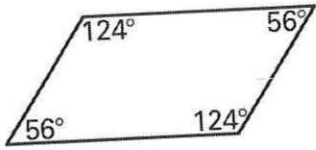


No.



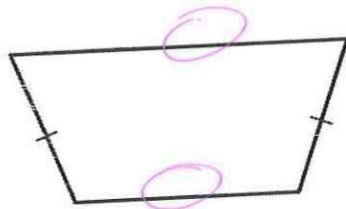
No

4.



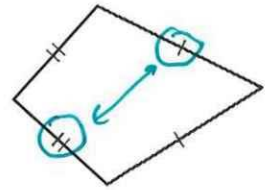
Yes
opp angles \cong

5.



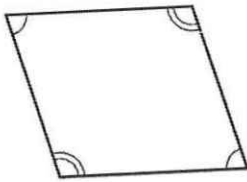
No

6.



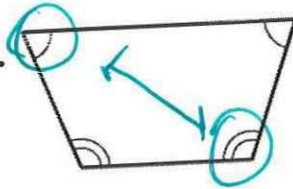
No

7.



Yes
opp angles \cong

8.



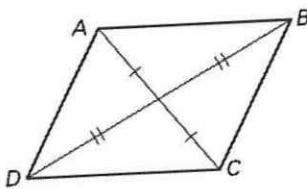
No

9.



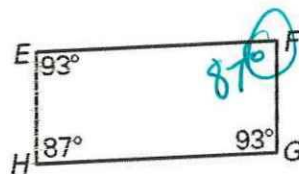
Yes.
opp angles \cong

10.



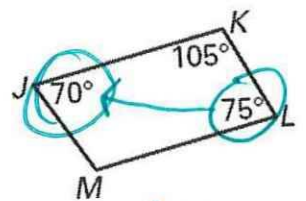
Yes
diagonals
bisect

11.



Yes
opp angles \cong

12.



No