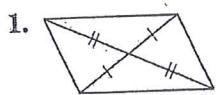


8-3

Practice

Tests for Parallelograms

Determine whether each quadrilateral is a parallelogram. Justify your answer.



yes

diagonals

Bisect

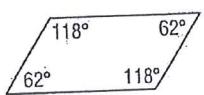


No, Not

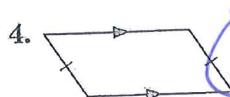
enough

info

3.



yes

opposite L's \cong 

No, Not enough

informash

COORDINATE GEOMETRY Determine whether a figure with the given vertices is a parallelogram. Use the method indicated.

5. $P(-5, 1)$, $S(-2, 2)$, $F(-1, -3)$, $T(2, -2)$; Slope Formula

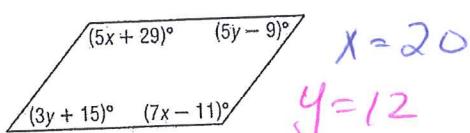
yes

6. $R(-2, 5)$, $O(1, 3)$, $M(-3, -4)$, $Y(-6, -2)$; Distance and Slope Formula

yes

ALGEBRA Find x and y so that each quadrilateral is a parallelogram.

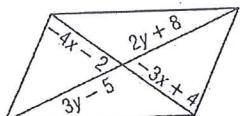
7.



$x = 20$

$y = 12$

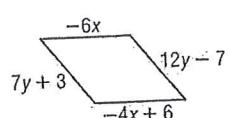
8.



$x = -6$

$y = 13$

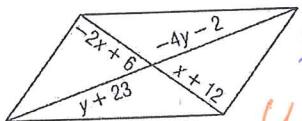
9.



$x = -3$

$y = 2$

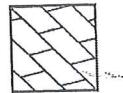
10.



$x = -2$

$y = -5$

11. **TILE DESIGN** The pattern shown in the figure is to consist of congruent parallelograms. How can the designer be certain that the shapes are parallelograms?



Confirm both pairs of opp. L's are \cong