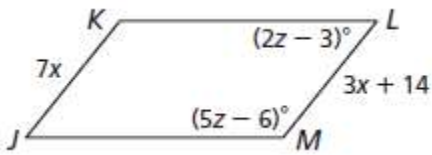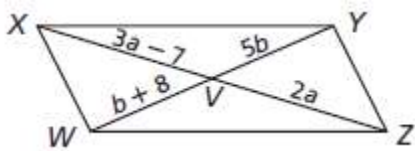1. Find the value of each variable in the parallelogram below. Name the relationship you used to solve for each variable.

Since _____, $x =$ _____

Since _____, $z =$ _____

2. Find the measure of the following lengths:

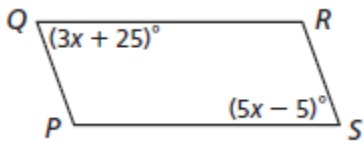WV = _____   XZ = _____   VZ = _____   YW = _____
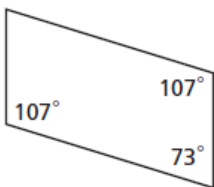
3. What is the measure of $\angle P$?

4. Prove whether the following figures are parallelograms or not:
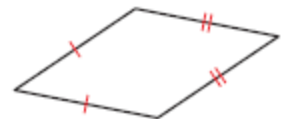
a.   b.   c.
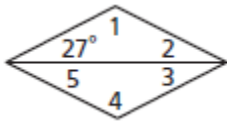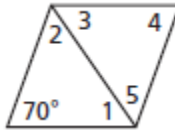
5. The following figures are rhombi. Determine the measure of each of the numbered angles.

a.

27°   1   2   5   3   4

b.

3   4   2   70°   1   5

c.

3   4   5   2   1   26°
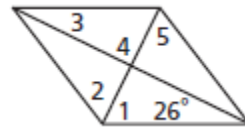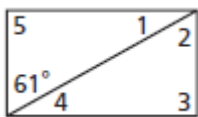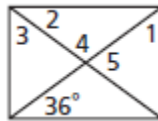
6. The following figures are rectangles. Determine the measure of each of the numbered angles.

a.

5   1   2   61°   4   3

b.

3   2   4   1   5   36°

c.

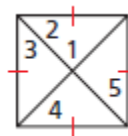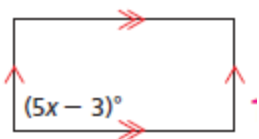2   3   1   5   4

7. Find the value of x in the following figures. The type of parallelogram is stated.

a. Rectangle

$(5x - 3)°$

b. Rhombus

$14 - x$

$2x + 5$

c. Square

$(13x + 5.5)°$
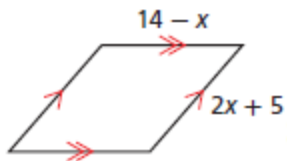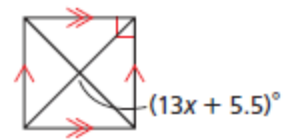
8. Solve for the given variables:

a. Square

Q   R $5x°$ 10 $(3x + 18)°$ $2y$ P   S

b. Rectangle

$RZ = 2x + 5,$
$SW = 5x - 20$

R   W   Z   S   T