

Name:

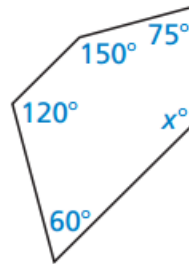
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HW #7-7: Quiz Review

1. Draw an example of a concave polygon.
2. Draw an example of a convex polygon.

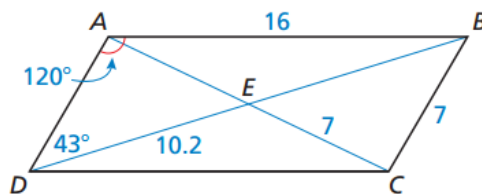
3. Draw an example of a regular polygon.
4. Find the value of x .



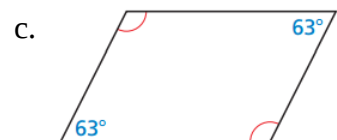
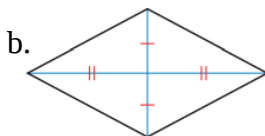
5. Find the measure of each interior and exterior angle of a regular 15-gon.

6. Find the indicated measure in $\parallel$ -gram ABCD.

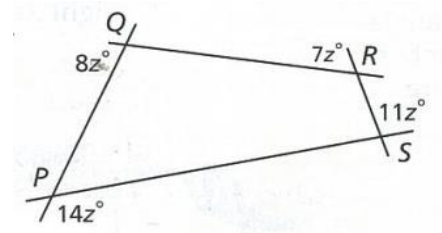
- a. $CD =$ _____
- b. $BD =$ _____
- c. $m\angle ABC =$ _____
- d. $m\angle DBC =$ _____



7. State the theorem (or describe it in “if $\rightarrow$ then” form) that you can use to prove the quadrilateral is a $\parallel$ -gram, if possible.



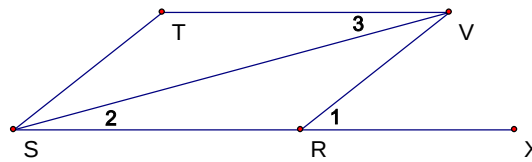
8. A park in the shape of quadrilateral PQRS is bordered by 4 sidewalks. Find the measure of each exterior angle of the park.



9. Complete the proof:

Given: $\angle 1 \cong \angle RST$ and $\angle 2 \cong \angle 3$

Prove: RSTV is a parallelogram.



Statements	Reasons

10. A convex polygon's interior angles have a sum of 2520° . How many sides does the polygon have? Then name the polygon by the number of its sides.

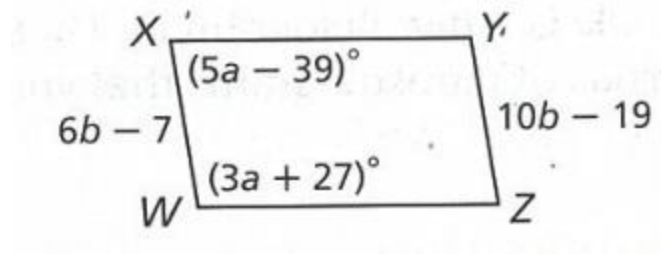
11. WXYZ is a parallelogram. Find each measure.

- a. $WX =$ _____

- b. $YZ =$ _____

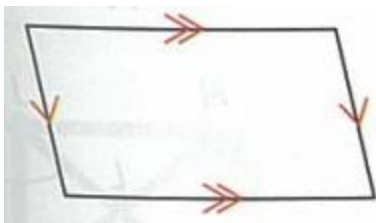
- c. $m\angle X =$ _____

- d. $m\angle W =$ _____

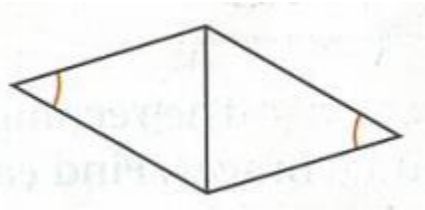


12. Determine if each quadrilateral must be a parallelogram. Justify your answer.

- a.



- b.



- C.

