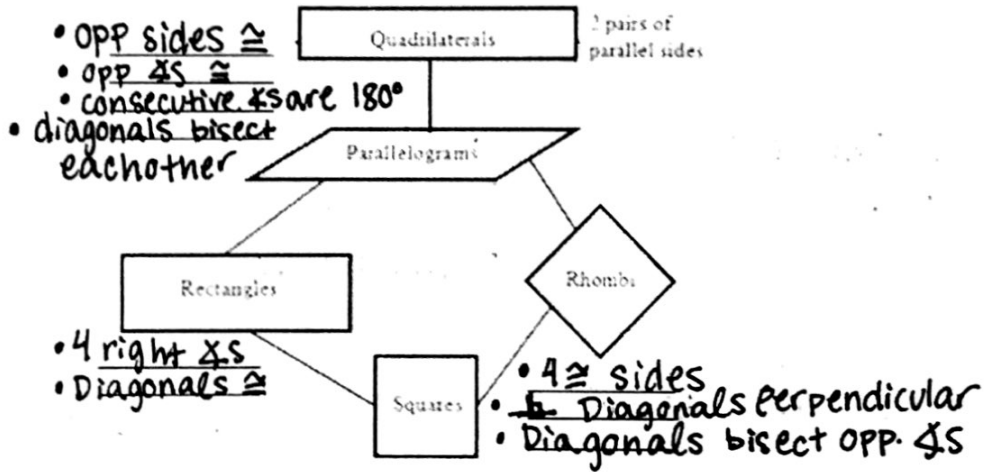


Name: Key Date: _____

1. List the properties of each of the following shapes:

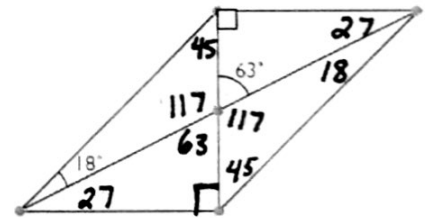
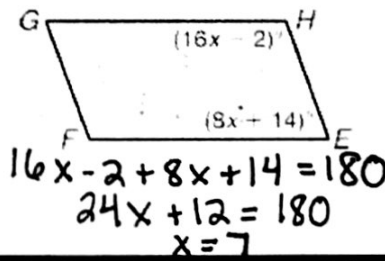
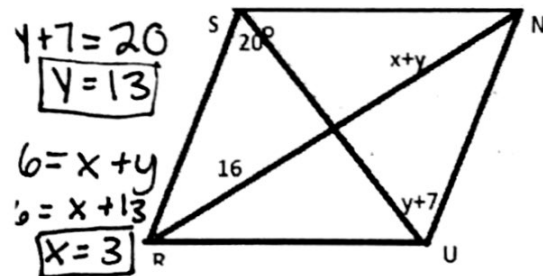


Find the missing variable for the following parallelograms.

3. Find x and y.

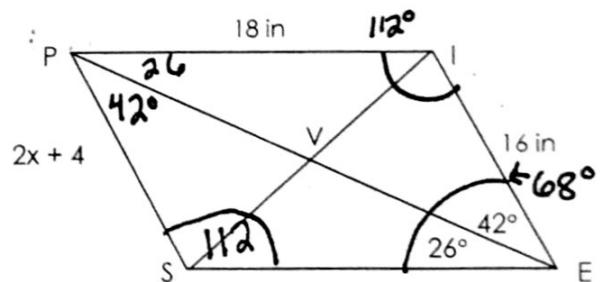
4. Find x.

5. Find the missing angles.



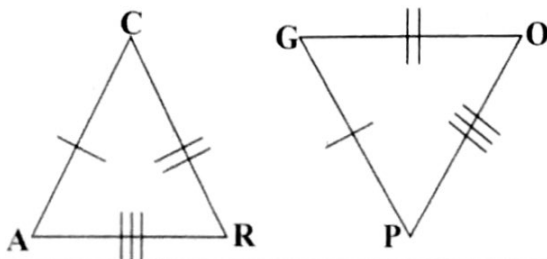
Refer to parallelogram PIES below.

6. $x = 6$
7. $m\angle PIE = 112^\circ$
8. $m\angle IPS = 68^\circ$
9. $m\angle SPV = 42^\circ$
10. If $PV = 20$, then $PE = 40$

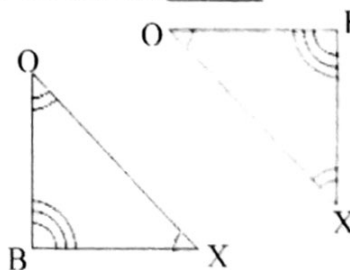


Write the congruence statement for each pair of triangles.

11. $\triangle RAC \cong \triangle OPG$



12. $\triangle FOX \cong \triangle BXO$



Congruent Triangles:

Determine whether each pair of triangles is congruent (SSS, SAS, ASA, AAS, or HL). If not, write not congruent. If they are congruent, write a congruence statement.

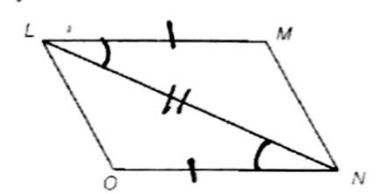
13.



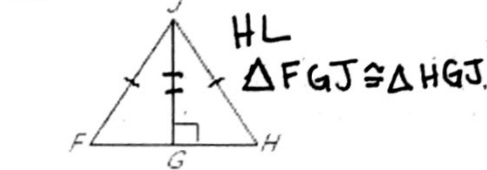
14.



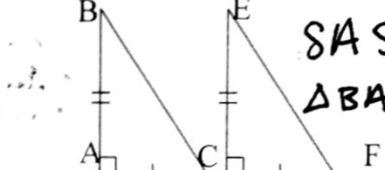
15.



16.

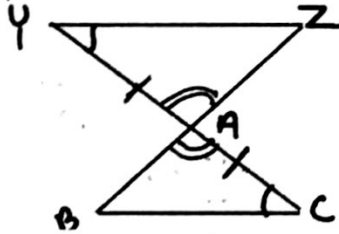


17.



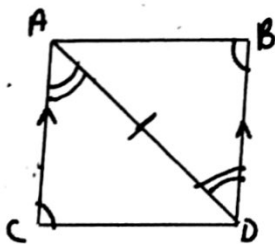
SAS
ΔLON ≅ ΔNML

18. Complete the following proof:



Statement	Reason
1. $\angle Y \cong \angle C$	1. Given
2. A is mdpt of \overline{YC}	2. Given
3. $\overline{YA} \cong \overline{CA}$	3. Def'n of midpoint
4. $\angle YAZ \cong \angle CAB$	4. vertical \angle s are \cong
5. $\Delta YZA \cong \Delta CBA$	5. ASA

19. Complete the following proof:

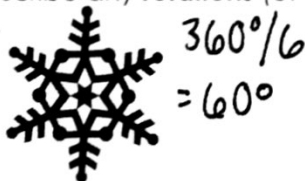


Statement	Reason
1. $\angle C \cong \angle B$	1. Given
2. $\overline{AC} \parallel \overline{BD}$	2. Given
3. $\angle CAD \cong \angle BDA$	3. Alternate Int. \angle s are \cong
4.	4. Reflexive Property
5. $\Delta ACD \cong \Delta DBA$	5. AAS \cong postulate

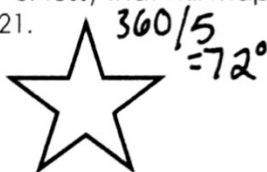
Unit 1 Review:

Describe any rotations (of 180° or less) that will map each figure onto itself.

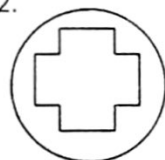
20.



21.



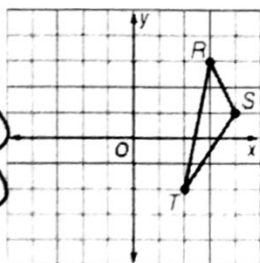
22.



$(-x, -y)$

23. Rotation 180° about the origin

- $(3, 3) \rightarrow (3, -3)$
- $(1, 1) \rightarrow (-1, -1)$
- $(2, -2) \rightarrow (-2, 2)$



24. Rotation 90° clockwise about the origin. $(y, -x)$

- $(4, 1) \rightarrow (1, -4)$
- $(3, 3) \rightarrow (3, -3)$
- $(2, -2) \rightarrow (-2, -2)$

