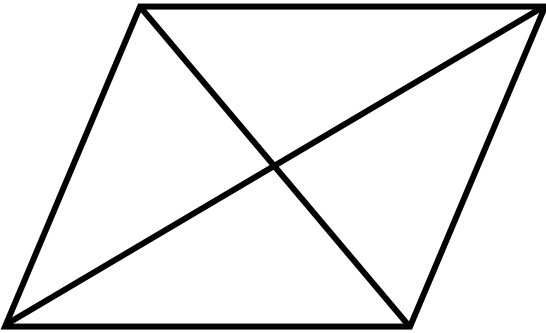


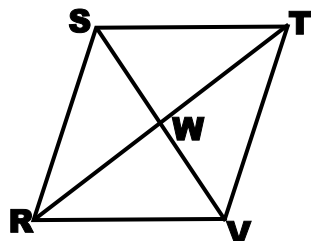
TOPIC 10-3: RHOMBI & SQUARES

A Rhombus is another special Quadrilateral. What do you already know about a Rhombus?

The properties of a rhombus are...

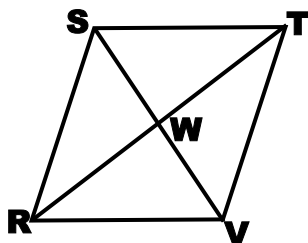
PROPERTY:	PICTURE:
1. Opposite sides are _____.	
2. Opposite sides are _____.	
3. Opposite angles are _____.	
4. Consecutive angles are _____.	
5. Diagonals _____ each other.	
6. All four sides are _____.	
7. Diagonals are _____.	
8. Diagonals bisect _____.	

EXAMPLE 1 If $m\angle RST = 67^\circ$, find $m\angle RSW$.



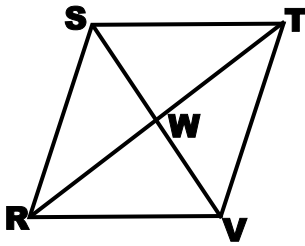
RSTV is a rhombus.

EXAMPLE 2 Find $m\angle SVT$ if $m\angle STV = 135^\circ$.



RSTV is a rhombus.

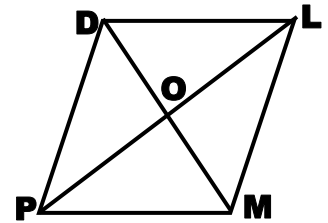
EXAMPLE 3 What is $m\angle SRV$ if $m\angle WRV = (5x + 5)^\circ$ and $m\angle WRS = (7x - 19)^\circ$?



RSTV is a rhombus.

EXAMPLE 4

In rhombus DLMP, $DM = 24$, $m\angle LDO = 43^\circ$, and $DL = 13$. Find each of the following.



a) $OM =$ _____

b) $m\angle DOL =$ _____

c) $m\angle DLO =$ _____

d) $m\angle DML =$ _____

e) $DP =$ _____

A **SQUARE** is a special parallelogram that has all of the combined properties of:

-
-

EXAMPLE 5 MATH is a square.

- a) If $MA = 8$, then $AT =$ _____
- b) $m\angle HST =$ _____
- c) $m\angle MAT =$ _____
- d) $m\angle MHS =$ _____
- e) If $HS = 2$, then $HA =$ _____ and $MT =$ _____

