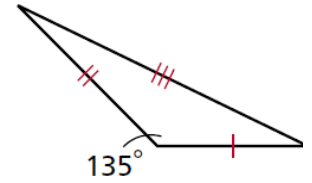
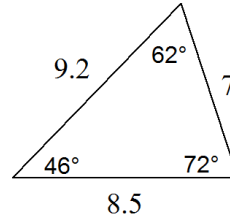
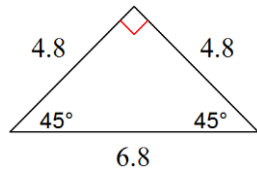
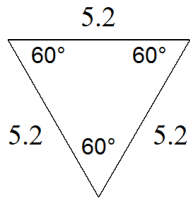


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

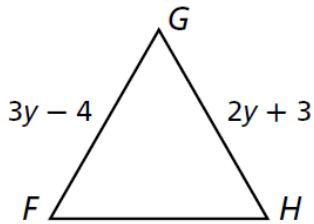
### Geometry -- Chapter 5 Test Review

#### 5.1 Angle Relationships in Triangles

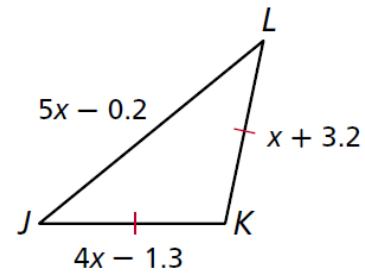
- List all Triangle Classifications for Angle Measures: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- List all Triangle Classifications by Side Lengths: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- Classify each triangle by angle measures and side lengths.



- Given equilateral triangle  $FGH$ , find the length of  $FH$ .

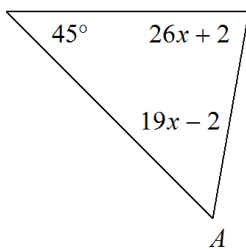


- Find the perimeter of the triangle.

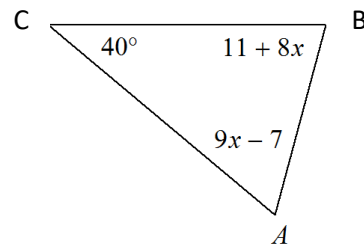


- All angles inside a triangle add up to equal: \_\_\_\_\_

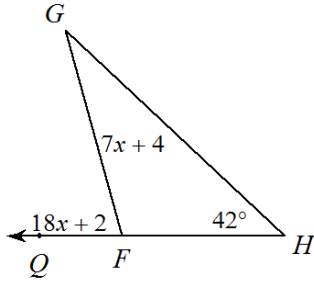
- Find the measure of Angle A.



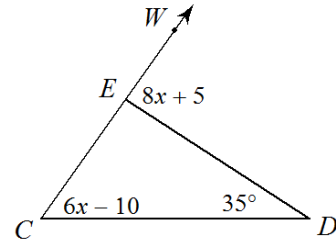
- List the angles in order from least to greatest.



9a. Find the measure of angle G.



9b. Find the measure of angle WED.



### 5.2 Congruent Triangles

Given:  $\triangle JKL \cong \triangle DEF$ . Identify the congruent corresponding parts.

10.  $\overline{KL} \cong$      ?

11.  $\overline{DF} \cong$      ?

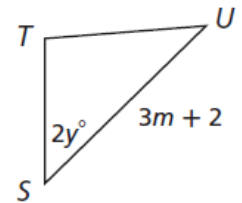
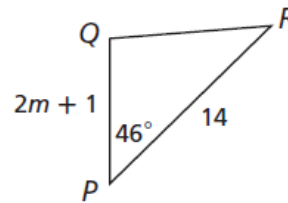
12.  $\angle K \cong$      ?

13.  $\angle F \cong$      ?

Given:  $\triangle PQR \cong \triangle STU$ . Find each value.

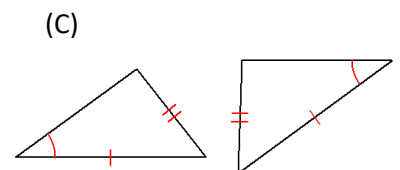
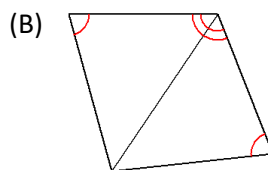
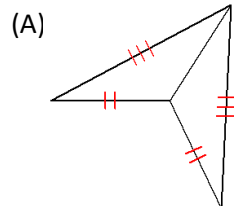
14.  $PQ$

15.  $y$

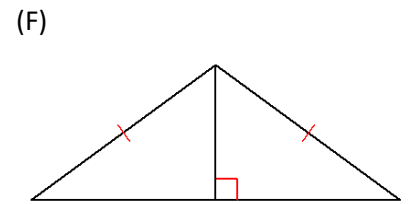
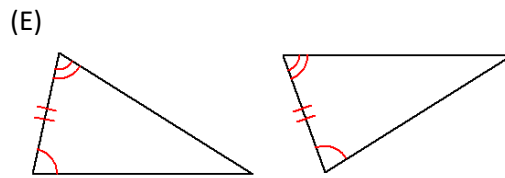
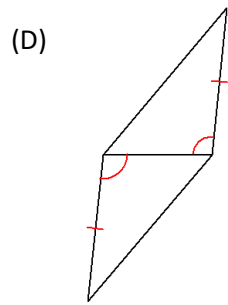


### 5.3, 5.5, 5.6, 5.7 – (SAS, SSS, HL, ASA, AAS, and CPCTC)

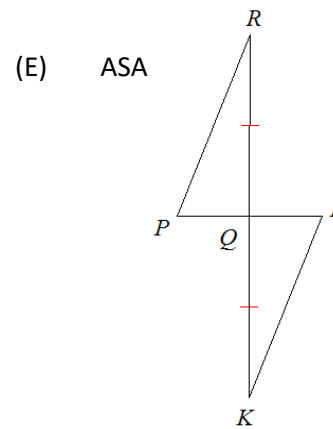
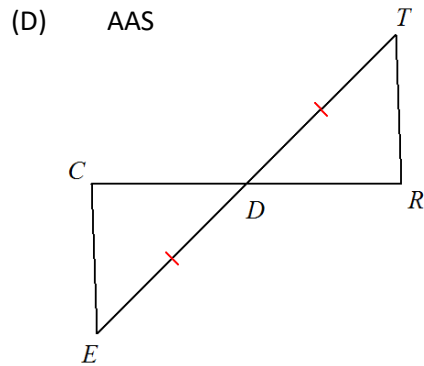
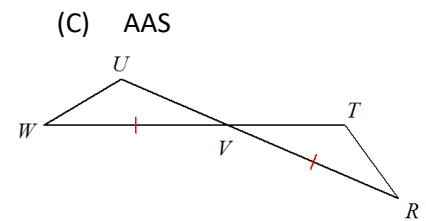
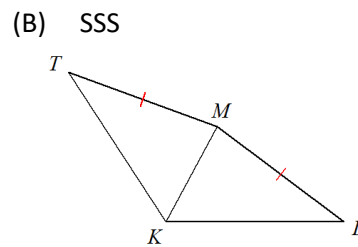
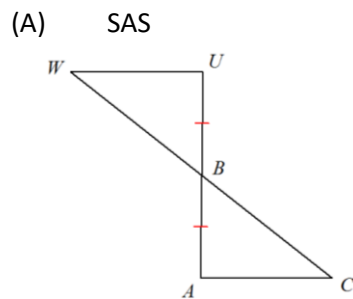
16. If possible, tell which shortcut will prove the two triangles are congruent? If not possible, list NA.



(16 Continued...Which shortcut proves the triangles are congruent??)

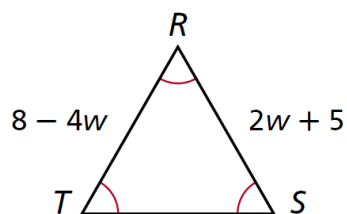


17. State what extra info is needed to prove the triangles are congruent by the given shortcut.

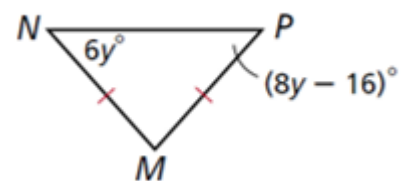


### 5.4 Equilateral and Isosceles Triangles

18. Find length of TS.



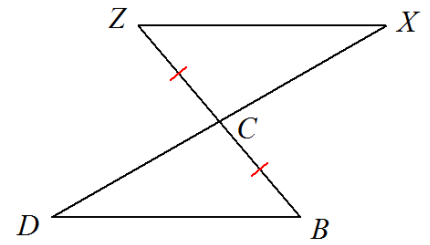
19. Find the measure of angle M.



20. Given:  $\overline{ZC} \cong \overline{CB}$ , C is the midpoint of DX

Prove:  $\overline{ZX} \cong \overline{DB}$

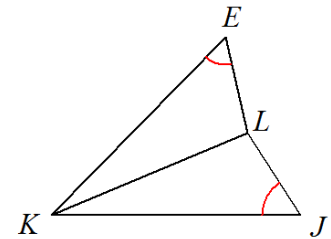
| Statements | Reasons |
|------------|---------|
|            |         |



21. Given:  $\angle E \cong \angle J$ ,  $\overline{LK}$  bisects  $\angle EKJ$

Prove:  $\overline{EL} \cong \overline{LJ}$

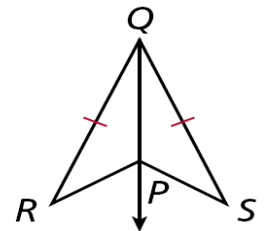
| Statements | Reasons |
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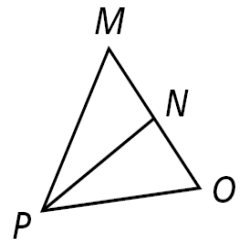
22. **Given:**  $QP$  bisects  $\angle RQS$ .  $QR \cong QS$

**Prove:**  $\triangle RQP \cong \triangle SQP$

| Statements | Reasons |
|------------|---------|
|            |         |

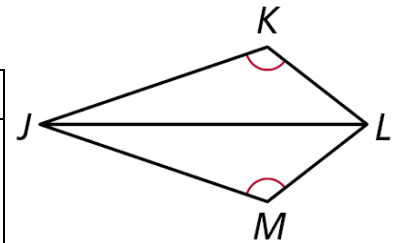


23. **Given:**  $PN$  bisects  $MO$ ,  $PN \perp MO$   
**Prove:**  $\triangle MNP \cong \triangle ONP$



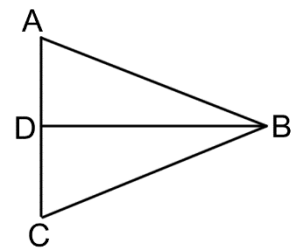
| Statements | Reasons |
|------------|---------|
|            |         |

24. **Given:**  $JL$  bisects  $\angle KLM$ ,  $\angle K \cong \angle M$   
**Prove:**  $\triangle JKL \cong \triangle JML$



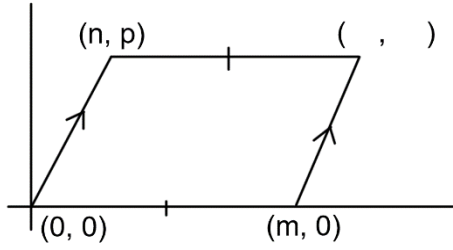
| Statements | Reasons |
|------------|---------|
|            |         |

25. **GIVEN:**  $\overline{AB} \cong \overline{BC}$ ,  $\overline{BD} \perp \overline{AC}$   
**PROVE:**  $\triangle ABD \cong \triangle CBD$



| Statements | Reasons |
|------------|---------|
|            |         |

26. Find the fourth vertex of the parallelogram.



27. Find the midpoint between points  $(n, p)$  and  $(m, 0)$

28. Find the distance between points  $(n, p)$  and  $(m, 0)$ .