Geometry   Name_____ Per_____
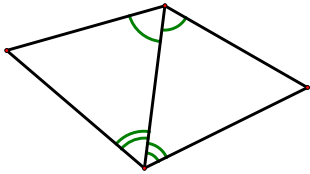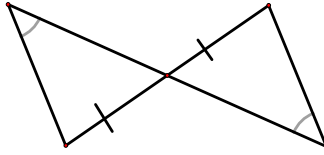Ch. 4 Review Sheet

Decide whether enough information is given to prove that the triangles are congruent. If there is enough
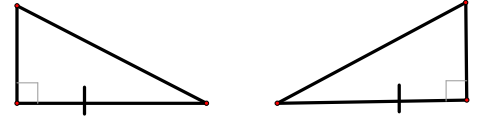information, state the congruence postulate you would use. (SSS, SAS, ASA, AAS, HL, or not ≅)
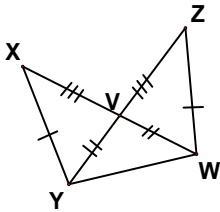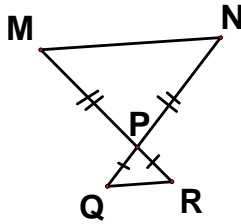
1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

ΔXVY & ΔZVW

ΔMPN & ΔQPR

ΔBCE & ΔDCE
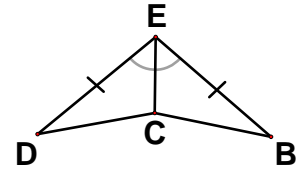
7. Identify all pairs of congruent corresponding angles and corresponding sides.
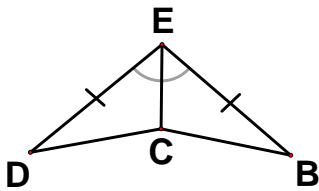
Angles: ∠D ≅ _____   Sides: $\overline{DE}$ ≅ _____

∠DEC ≅ _____ $\overline{CD}$ ≅ _____

∠ECD ≅ _____ $\overline{EC}$ ≅ _____

8. Write a congruency statement for the Triangles above: __Δ_____ ≅ _Δ_____

9-11: Find the values of x and y

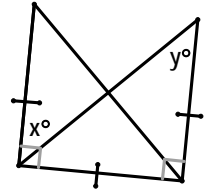9. x = _____, y = _____   10. x = _____, y = _____   11. x = _____, y = _____
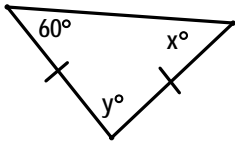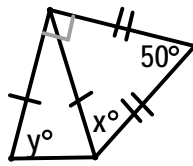
12. Quadrilateral ABCD ≅ Quadrilateral EFHG

a = _____

b = _____

c = _____

m = _____

∠C = _____
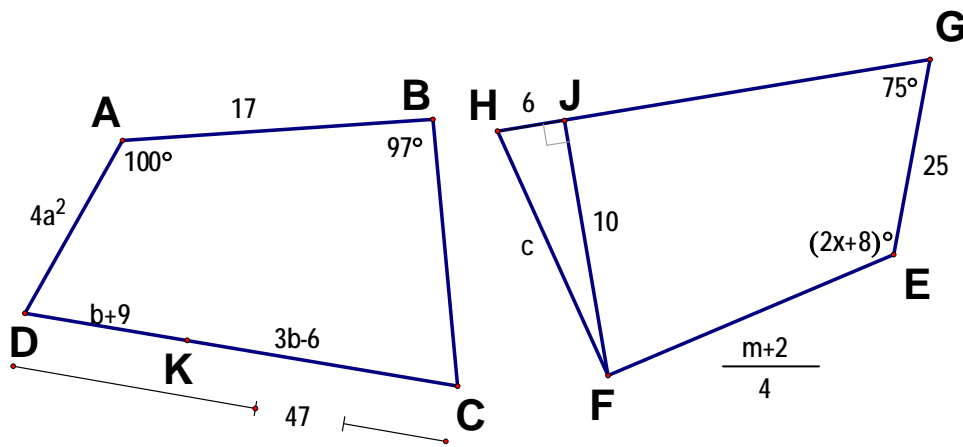
13.   **Given △JKL ≅ △PQR. Find each value.**   Find x and $\overline{RP}$.

x = _____

$\overline{RP}$ = _____
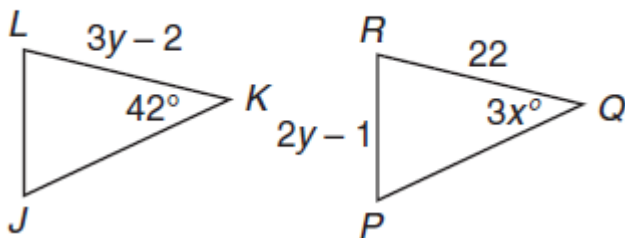
14. Complete the proof.

Given: O is the midpoint of $\overline{MQ}$.

O is the midpoint of $\overline{NP}$.

Prove: $\triangle MON \cong \triangle QOP$
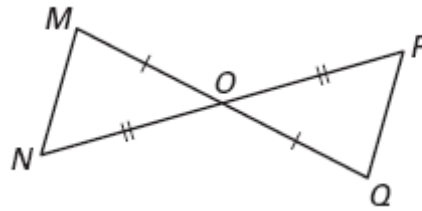
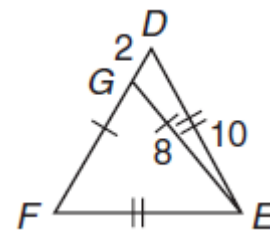| Statements	Reasons
1. O is the midpoint of $\overline{MQ}$.	1._____
2. $\overline{MO} \cong \overline{QO}$	2._____
3. O is the midpoint of $\overline{NP}$.	3._____
4. $\overline{NO} \cong \overline{PO}$	4._____
5. $\angle MON \cong \angle QOP$	5._____
6. $\triangle MON \cong \triangle QOP$	6._____

15. Classify each triangle by its angle measures:

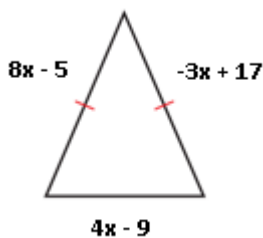$\triangle XYZ$ $\triangle XYW$ $\triangle XZW$
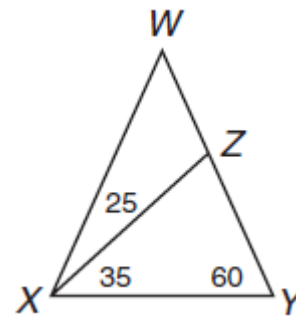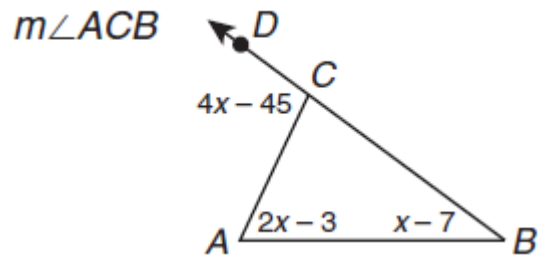
16. Classify each triangle by its side lengths:

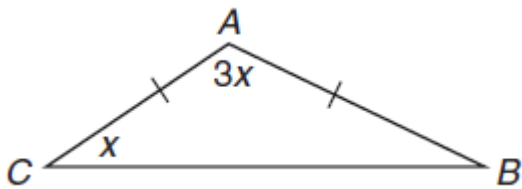$\triangle DEF$ $\triangle DEG$ $\triangle EFG$

17. Find the value of x and all of the side lengths.

8x - 5   -3x + 17

4x - 9

18. Find the value of x and the measure of ∠ACB.

m∠ACB

4x − 45

2x − 3   x − 7

19. Find the measure of < B.

3x

x

20. Find the measure of < HEF.

110°