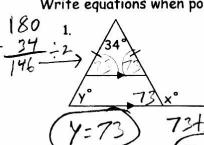
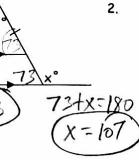
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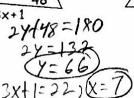
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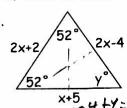
Write equations when possible and solve for the value of each variable.

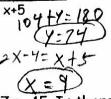


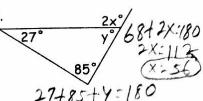






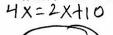


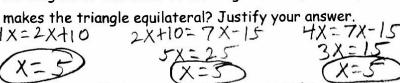




27+85+4=180

5. The lengths of the sides of a triangle are 4x, 2x + 10, and 7x - 15. Is there a value of x that

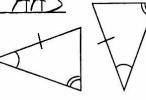


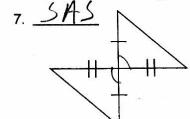


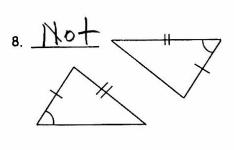
X=5 makes all sides

State the reason that proves congruence, or write not congruent.









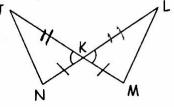
Mark your diagram and state two reasons, that prove, congruence.





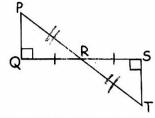
Mark your diagram and state the corresponding side or angle pair that is needed in order to use the given postulate or theorem. State all congruent pairs in the corresponding boxes below.

12.

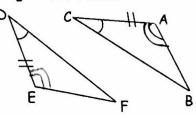


5	JR = IM
A	LJKN≅ <lkm< th=""></lkm<>
5	NR = MR

13.

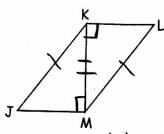


R	< Par	<u>≅</u>	<tjr< th=""></tjr<>
Н	PR	≅	下区
L	OR	≅	SR

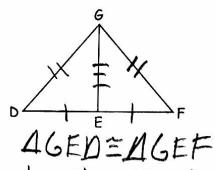


Α	<0	≅ < ८
S	ED	≈ AC
Α	SE	= <a< td=""></a<>

- A. Use the given information to mark all congruent parts in the diagram.
- B. Identify the postulate or theorem that proves the two triangles are congruent. If they are not congruent, write not congruent.
- C. If they are congruent, write a congruence statement.
 - 15. ∠JMK and ∠LKM are right angles; KJ ≈ LM

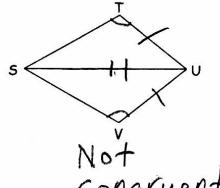


16. E is the midpoint of DF; DG ≅ FG



by the SSS Post

17. ∠T≅∠V; TU≅ VU

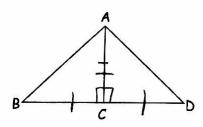


Mark your diagrams appropriately and complete the 2-column proofs below.

18. Given: C is the midpoint of BD

AC LBD

Prove: AB = AD



Statement

1. C is the midpoint of BD

- 2. BC ≅
- 3. AC LBD

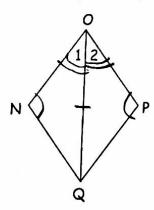
- 6. △ABC = △AL
- 7. $\overline{AB} \cong \overline{AD}$

- Reason
- 1. Given
- 2. Def. of Midy

19. Given: OQ bisects ∠NOP;

∠N≅∠P

Prove: ∠NQO ≅ ∠PQO



Statement

Reason

1. OQ bisects ∠ NOP; ∠N≅∠P

5. ∠NQO ≅ ∠PQO

1. Given