## Congruence and Triangles .

Per.:\_

- 1. Given  $\triangle AEI \cong \triangle OUY$ . Name the corresponding part for each of the following:
- a. ∠E ≅

. 20 ≅

c. <u>07</u> ≅

a. ∠F ≅

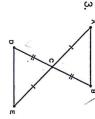
EI ≅

o.

- 2. Given  $\Delta DEF \cong \Delta RST$ . Name the corresponding part for each of the following:
- Ö 2S ≅

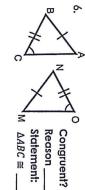
- c.  $\overline{DE} \cong$
- d. TR ≅

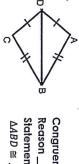
appropriate congruence postulate/theorem shortcut and write the congruence statement. Determine whether the following triangles are congruent. State yes or no. If yes, state the



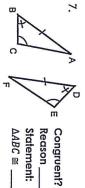
Statement: Reason\_ ΔABC:≅

Congruent?

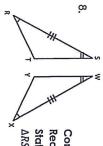




Reason\_\_ Congruent? Statement:



 $\Delta RST \cong$ Statement: Reason\_ Congruent?



Congruent?

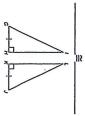
Statement: Reason\_

 $\Delta ZXY \cong$ 

For questions 9-13, what additional, corresponding parts are needed to prove the triangles congruent by the indicated method?

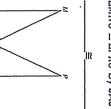
∆ABC ≅ ∆DEF by AAS

 $11.\Delta GHI \cong \Delta JKL$  by SAS



12. ∆STU ≅ ∆VWX by SSS

 $10.\Delta MNO \cong \Delta PRO$  by SAS



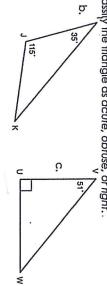


13. ∆ONE ≅ ATEN by ASA

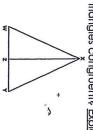


14. Find the missing angle and classify the triangle as acute, obtuse, or right...

Ω



)5. Given WZ = YZ and  $\angle XZW \cong \angle XZY$ . By what method are the triangles congruent? Explain your reasoning.



## Congruence and Triangles

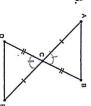
- 1. Given  $\triangle AEI \cong \triangle OUY$ . Name the corresponding part for each of the following: Per.:

- c. <del>ov</del> ≅ AI
- 2. Given  $\Delta DEF \cong \Delta RST$ . Name the corresponding part for each of the following:
- b. 25 ≈ LE a. 2F ≅\_

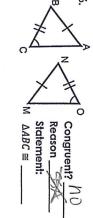
c. DE ≅ RS

d. TR ≅\_

appropriate congruence postulate/theorem shortcut and write the congruence statement Determine whether the following triangles are congruent. State yes or no. If yes, state the



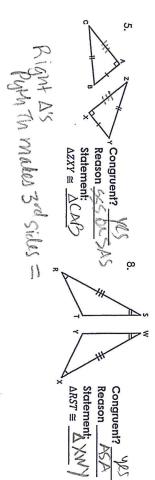
Congruent? YES
Reason SAS Statement: ∆ABC:≅\DEDC







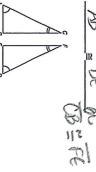
Ω



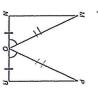
congruent by the indicated method? 11. ∆GHI ≅ AJKI by SAS

For questions 9-13, what additional, corresponding parts are needed to prove the triangles

9. AABC ≅ ADEF by AAS

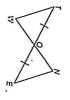


10. AMNO ≅ APRO by SAS

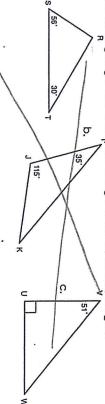


12. ∆STU \approx \DVWX by SSS





14. Find the missing angle and classify the triangle as acute, obtuse, or right.



15. Given WZ = YZ and  $\angle XZW \cong \angle XZY$ . By what method are the triangles congruent? Explain your reasoning.

KEW=CXE) 15 snared then