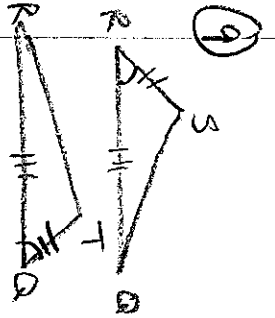
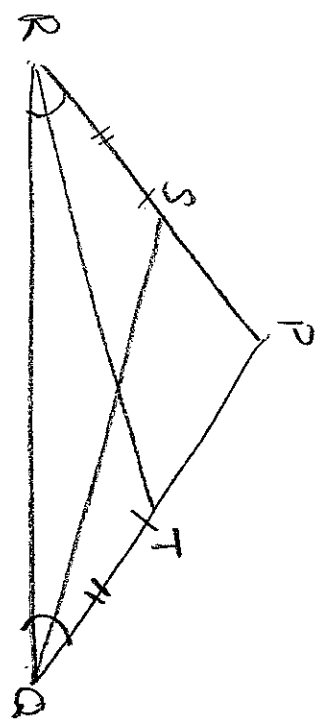


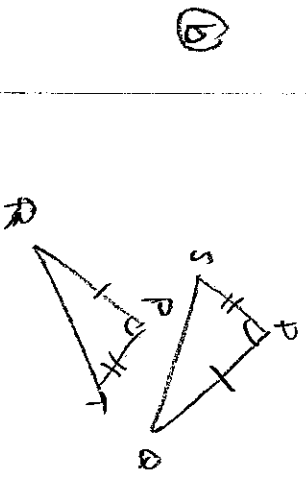
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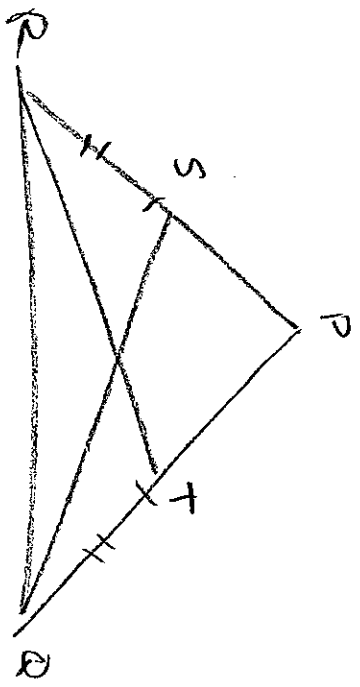
- 9a
- $\overline{PR} \cong \overline{PR}$ ;  $\overline{SR} \cong \overline{TR}$
  - $\angle PRQ \cong \angle PQR$
  - $\overline{RQ} \cong \overline{RT}$
  - $\Delta PQR \cong \Delta PRT$
  - $\overline{QS} \cong \overline{RT}$



- Given
- Isosc.  $\Delta$  Thm
- Reflexive
- SAS
- CPCTC

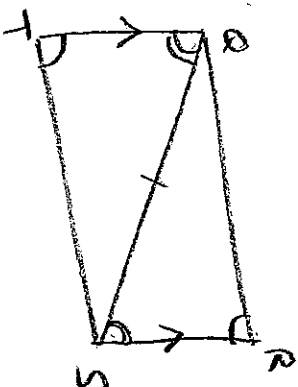


- 9c
- $\overline{PR} \cong \overline{PR}$ ;  $\overline{SR} \cong \overline{TR}$
  - $\angle P \cong \angle P$
  - $\overline{PR} = \overline{PR}$ ;  $\overline{SR} = \overline{TR}$
  - $\overline{PR} = \overline{PS} + \overline{SR}$ ;  $\overline{PR} = \overline{PT} + \overline{TR}$
  - $\overline{PS} + \overline{SR} = \overline{PT} + \overline{TR}$
  - $\overline{PS} = \overline{PT}$
  - $\overline{RS} \cong \overline{RT}$
  - $\Delta PQR \cong \Delta PRT$
  - $\overline{QS} \cong \overline{RT}$



- Given
- Reflexive
- def.  $\cong$
- Seg. Addn. Post.
- Subst.
- Subtraction
- def.  $\cong$
- SAS
- CPCTC

14.



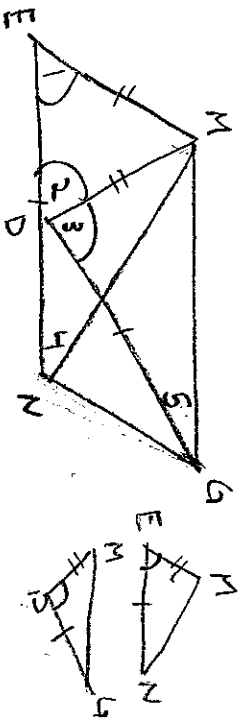
1.  $\angle R \cong \angle T$   
 $\overline{RS} \parallel \overline{QT}$

2. Draw  $\overline{QS}$
3.  $\angle RSQ \cong \angle SAT$
4.  $\overline{QS} \cong \overline{QS}$
5.  $\triangle RSQ \cong \triangle SAT$
6.  $\overline{RS} \cong \overline{AT}$

1. Given

2. Through 2 pts. there is a line
3.  $\parallel$  lines  $\rightarrow$  alt. int.  $\angle S \cong$
4. Reflexive
5. AAS
6. CPCTC

15.



1.  $\angle 1 \cong \angle 2 \cong \angle 3$

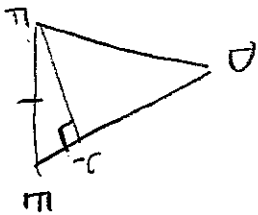
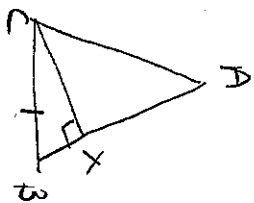
2.  $\overline{EN} \cong \overline{DN}$
3.  $\triangle MNE \cong \triangle MGD$
4.  $\angle 4 \cong \angle 5$

1. Given

2. if 2  $\angle$ 's  $\Delta \cong \rightarrow$  sides opp.  $\cong$
3. SAS
4. CPCTC

(10)

Given:  $\triangle ABC \cong \triangle DEF$   
 $\overline{AX} \perp \overline{AB}$ ;  $\overline{EY} \perp \overline{DE}$



Prove:  $\overline{AX} \cong \overline{EY}$

1.  $\overline{AX} \perp \overline{AB}$ ;  $\overline{EY} \perp \overline{DE}$   
 $\triangle ABC \cong \triangle DEF$
2.  $\overline{CB} \cong \overline{FE}$
3.  $\angle CXB$  is (r.t.)  $\angle$   
 $\angle FYE$  is (r.t.)  $\angle$
4.  $\triangle CXB$  is (r.t.)  $\triangle$   
 $\triangle FYE$  is (r.t.)  $\triangle$

1. Given
1. Given
2. CPCTC
3. def.  $\perp$

4. def. (r.t.)  $\triangle$